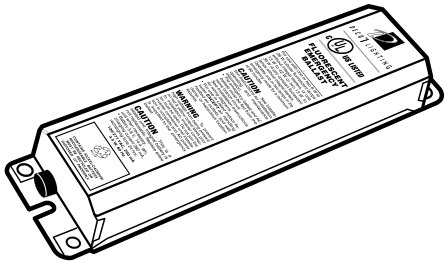
DECO™| LIGHTING



DCB-1400

Fluorescent Emergency Ballast

Installation Instructions

! IMPORTANT !

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. This device is designed for indoor use. Do not use outdoors.
2. To prevent high voltage from being present on red & yellow leads, prior to installation, battery connector must be open. Do not join battery connector until installation is complete and AC power is supplied to the emergency ballast.
3. This product is for use with 17W-110W single or bipin fluorescent lamps, ranging from 2-8ft. in length, including standard, energy saving, HO, VHO, circline, U-shaped and rapid-start (4-pin) long fluorescent lamps.
4. Please ensure that all connections are in accordance with the National Electric Code (NEC) and other local regulations (if applicable).
5. To avoid the chance of electric shock, disconnect both normal and emergency power supplies and the battery connector of the emergency ballast before servicing.
6. This emergency ballast is designed for factory or field installation in either the ballast channel, or on top of the fixture.
7. This product is for use in indoor fixtures except air handling heated air outlets, and wet, damp or hazardous locations. Do not install this device near gas or electric heaters.
8. An AC power source is required (120 or 277VAC, 60Hz)
9. The battery used in this product is a sealed, no-maintenance unit, and is 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 emergency ballast for other than intended use.
12. Product servicing should only be performed by qualified service personnel.

SAVE THESE INSTRUCTIONS

Deco Lighting
14208 S. Western
Gardena, CA 90249

(800) 613-DECO
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Ni-Cd

CONTAINS NICKEL-CADMIUM RECHARGEABLE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

09/08/06
DCB1400INST-001

INSTALLATION INSTRUCTIONS

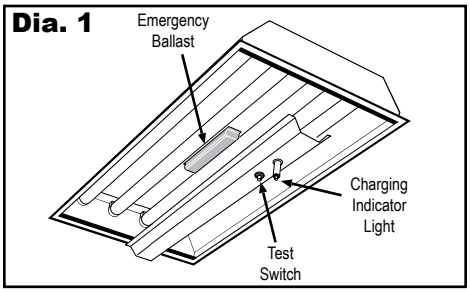
WARNING: TO PREVENT HIGH VOLTAGE FROM BEING PRESENT ON RED & YELLOW OUTPUT LEADS PRIOR TO INSTALLATION, BATTERY CONNECTOR MUST BE OPEN. DO NOT JOIN BATTERY CONNECTOR UNTIL INSTALLATION IS COMPLETE AND AC POWER IS SUPPLIED TO THE EMERGENCY BALLAST.

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

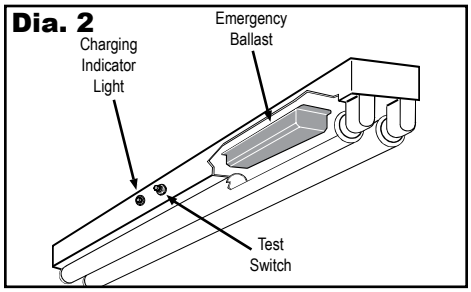
STEP 1 ▸ Installing the Emergency Ballast

- Disconnect AC power from the fixture.
- Refer to diagrams 1, 2 or 3 in regards to ballast mounting location and test switch location.

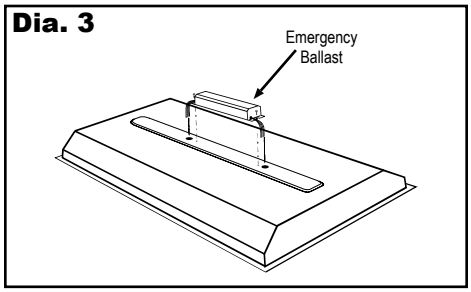
Dia. 1



Dia. 2



Dia. 3

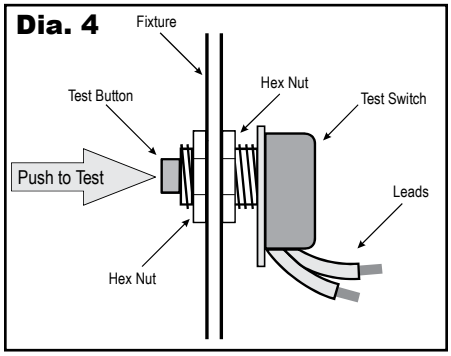


- Select the proper wiring diagram (see page 4), and follow the diagram to wire the ballast correctly.

STEP 2 ▸ Installing the Test Switch

- Refer to the diagrams 1, 2 or 3 for test switch installation location.
- Using a 1/2" drill bit, drill a hole in the chosen location and install the switch as shown in diagram 4.
- Refer to the set of drawings in diagram 5 for instructions on how to wire the test switch so that it will draw AC power from both the emergency ballast and the AC ballast at the same time.

Dia. 4

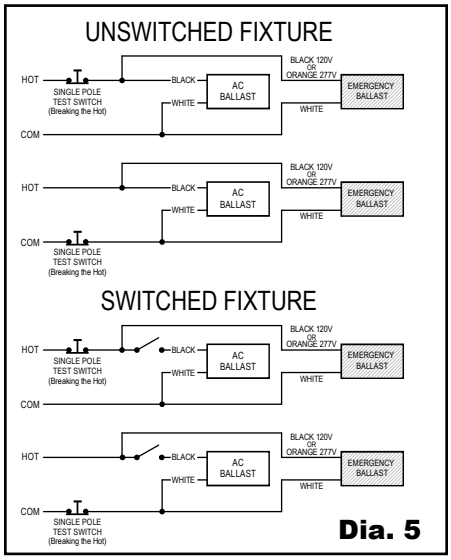


STEP 3 ▸ Installing the Charging Indicator Light

- Follow the directions in diagram 6 for installation and placement of the charging indicator light so that it will be visible after the fixture is installed.

STEP 4 ▸ Wiring the Emergency Ballast

- Determine the type of AC ballast installed on the fixture
- Select the correct wiring diagram (page 4) 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 the installation is complete, connect the AC power to the emergency ballast and join the battery connector.
- Power should now be connected to both the AC ballast and the emergency ballast, and the charging indicator light should be lit, indicating that the battery is charging.

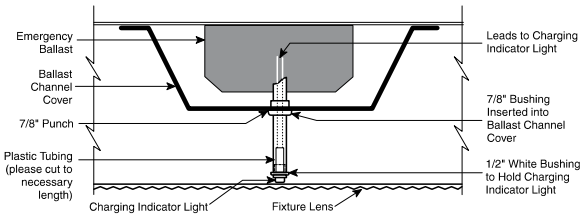


Dia. 5

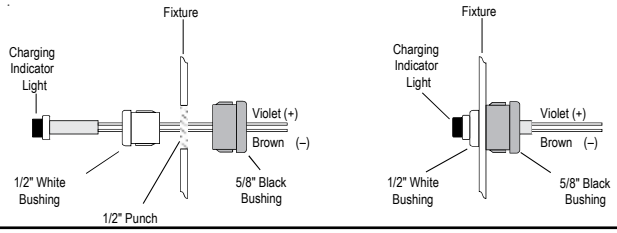
- The battery needs to be charged for one (1) hour before performing a short-term discharge test.
- Be sure to attach the "**CAUTION: This Unit Has More Than One Power Supply Connection Point. To Reduce The Risk of Electric Shock, Disconnect Both The Branch Circuit-Breakers or Fuses and Emergency Power Supplies Before Servicing."** label in a location that is easily visible.

Dia. 6

TROFFER STYLE FIXTURE



STRIP STYLE FIXTURE



OPERATION

When AC power is supplied to the emergency ballast, the charging light is illuminated; the battery is being charged at this point. When power fails, the emergency ballast will switch over to the battery, and will operate one or two lamps for a minimum of 90 minutes.

MAINTENANCE

NOTE: Emergency ballast servicing should only be performed by qualified personnel.

No routine maintenance is required to keep the emergency ballast functional, but it should still be checked periodically to confirm that it is working correctly. The following should be performed as specified:

1. Inspect the charging indicator and confirm that it is lit.
2. At 30-day intervals, a short-term discharge test should be performed. The test switch should be held for 30 seconds, and either one or two lamps should be functioning (at reduced illumination).
3. Annually, a long-term (90 minutes) discharge test should be performed. One or two lamps should function for a minimum of 90 minutes

WIRING DIAGRAMS

The following diagrams are typical schematics only. Consult the factory for other wiring diagrams.

NOTE: Emergency ballast and AC ballast must be fed from the **SAME BRANCH CIRCUIT.**

Refer to the table below (Table 1) for the Brown Connector.

TABLE 1

LAMP (DIAMETER)	BASE TYPE	WATTAGE (LENGTH)	# OF LAMPS (EMERGENCY MODE)	BROWN CONNECTOR
T8, T10, T12 (1", 1-1/4", 1-1/2")	SINGLE OR BIPIN	17 - 24W	1	CLOSED
			2	OPEN
		32 - 40W (2' - 4')	1	CLOSED
			2	OPEN
		40 - 110W (5' - 8')	1	OPEN
LONG COMPACT	4-PIN (2G11)	18 - 39W	1	CLOSED
			2	OPEN
		40 - 50W	1	OPEN
COMPACT	4-PIN (G24q, GX24q)	18 - 42W	1	CLOSED
		18 - 32W	2	OPEN

WIRING DIAGRAMS (cont.)

The following diagrams are typical schematics only. Consult the factory for other wiring diagrams.

NOTE: Emergency ballast and AC ballast must be fed from the **SAME BRANCH CIRCUIT.**

For Emergency Operation of One Lamp

FIG 1 ONE (1) LAMP INSTANT START AC BALLAST

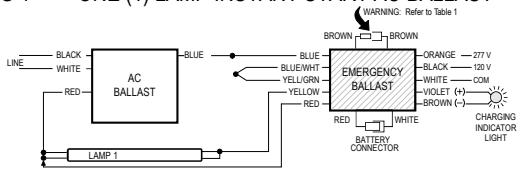


FIG 2 TWO (2) LAMPS INSTANT START AC BALLAST

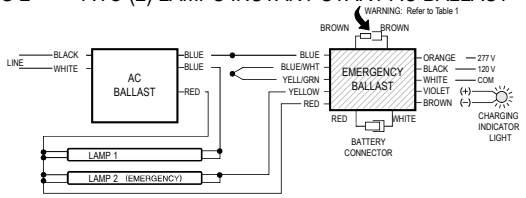


FIG 3 THREE (3) LAMPS INSTANT START AC BALLAST

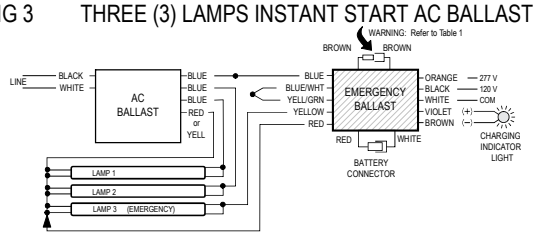


FIG 4 FOUR (4) LAMPS INSTANT START AC BALLAST

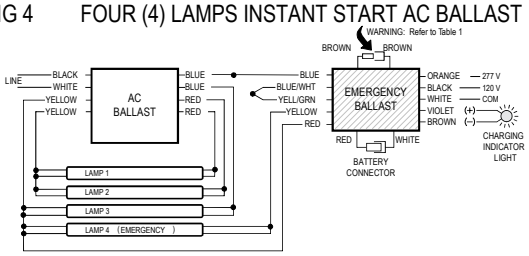


FIG 5 ONE (1) LAMP RAPID START AC BALLAST

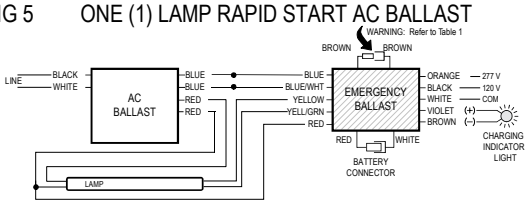
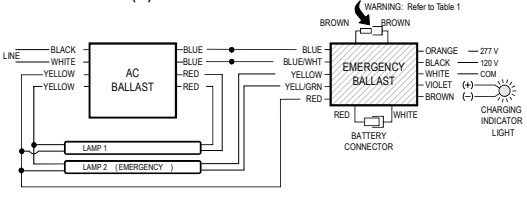


FIG 6 TWO (2) LAMPS INSTANT START AC BALLAST



For Emergency Operation of Two Lamps (17-40W)

FIG 7 TWO (2) LAMPS INSTANT START AC BALLAST

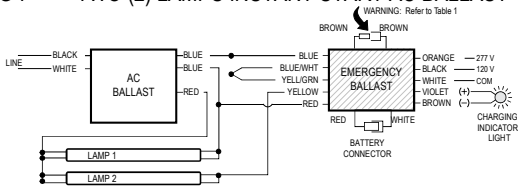


FIG 8 THREE (3) LAMPS INSTANT START AC BALLAST

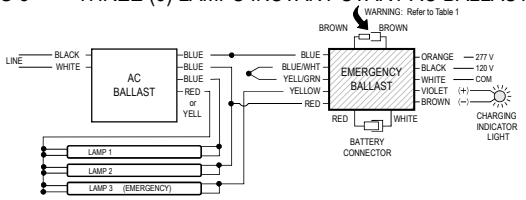


FIG 9 FOUR (4) LAMPS INSTANT START AC BALLAST

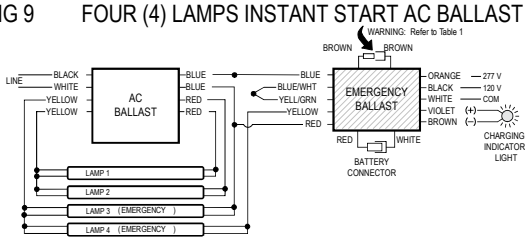
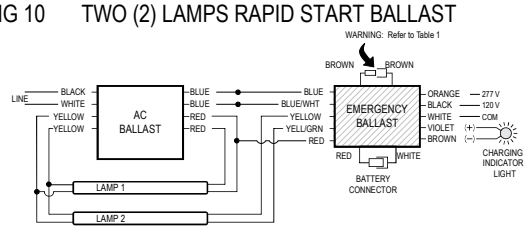


FIG 10 TWO (2) LAMPS RAPID START BALLAST



For Emergency Operation ONLY

FIG 11 ONE (1) LAMP WITHOUT AC BALLAST (17-110W)

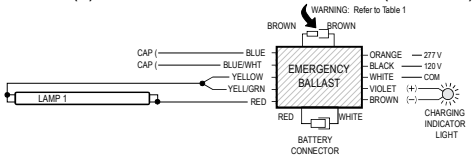


FIG 12 TWO (2) LAMPS WITHOUT AC BALLAST (17-40W)