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I-26-EM-B

SERIES D
QUAD TUBE
FLUORESCENT EMERGENCY BALLAST

INSTRUCTION MANUAL

IMPORTANT SAFEGUARDS

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. **CAUTION** – To prevent electrical shock, do not mate unit connector until installation is complete and A.C. power is supplied to the unit.
2. **CAUTION** – This fixture provides more than one power supply output source. To reduce the risk of electrical shock, disconnect both normal and emergency sources by turning off the A.C. branch circuit and by disconnecting the unit connector.
3. **CAUTION** – This is a sealed unit. The integral, high temperature Ni-Cad battery is not replaceable. Replace the entire unit when necessary and recycle or dispose of the nickel-cadmium battery properly.
4. **DO NOT USE OUTDOORS.** The **I-26-EM-B** is for use with grounded, UL Listed, indoor fixtures except in heated air outlets or hazardous locations.
5. The **I-26-EM-B** requires an unswitched A.C. power source of either 120 or 277 volts. Properly cap the unused A.C. lead.
6. Do not mount near gas or electric heaters.
7. The **I-26-EM-B** should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
8. The **I-26-EM-B** is designed to cold strike and operate *one* 18W–26W, quad tube compact fluorescent lamp, two-pin base including integral starter, with a single lampholder per lamp.
9. The **I-26-EM-B** is for use in fluorescent downlight fixtures.
10. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
11. Do not use this equipment for other than intended use.
12. Install in accordance with the National Electrical Code and local regulations.
13. Installation and servicing should be performed by qualified personnel.
14. Lighting fixture manufacturers, electricians, and end users need to ensure product system compatibility before final installation.

SAVE THESE INSTRUCTIONS



THIS UNIT CONTAINS A
RECHARGEABLE NICKEL-
CADMIUM BATTERY. PLEASE
RECYCLE OR DISPOSE OF
PROPERLY.

INSTALLATION INSTRUCTIONS

CAUTION: Before installing, make certain the A.C. power is off and the I-26-EM-B unit connector is disconnected.

1. MOUNTING THE I-26-EM-B

Mount the **I-26-EM-B** in the ballast channel or enclosed wireway so the wire leads are not exposed, at least 1/2" away from the A.C. ballast(s). Refer to *illustrations 1 and 2*.

When battery packs are remote mounted, the remote distance can not exceed 1/2 of the distance from ballast to lamp specified by the A.C. ballast manufacturer. For example, if the A.C. ballast manufacturer recommends no more than 25' remote distance, then the battery pack should not exceed 12 1/2'. Under no circumstances should the battery pack exceed a distance of 50' from the lamp.

2. WIRING

Refer to the wiring diagrams on the back page for the appropriate wiring of lamp(s), ballast and **I-26-EM-B**. Install in accordance with the National Electrical Code and local regulations. For additional wiring diagrams not shown, consult Customer Service.

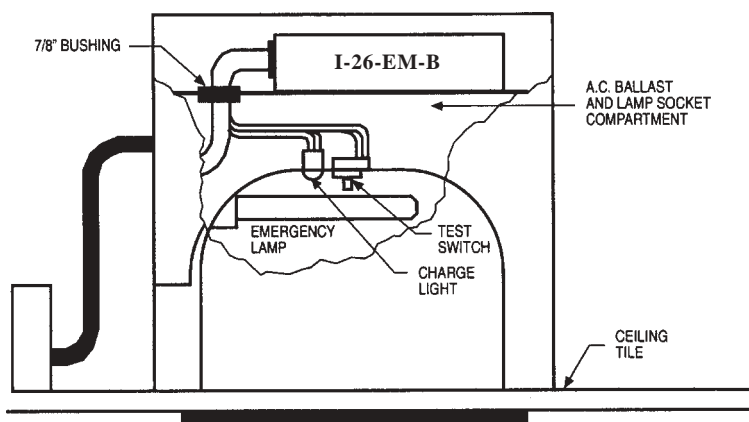
3. INSTALLING THE CHARGE INDICATOR

Downlight Fixture— Select a convenient location on the fixture so that the **Charge Indicator** can be seen after installation. Allow for proper clearance and drill or punch a 1/2" mounting hole. Disconnect the leads from the **Charge Indicator**. Push the **Charge Indicator** into the 1/2" hole until it is firmly locked into place. Reconnect the leads, observing proper polarity (Red/Black or Red lead w/connector to positive (+) red tab). Make certain all leads are enclosed in an appropriate wireway. Refer to *Illustrations 1 and 2*.

4. INSTALLING THE TEST SWITCH

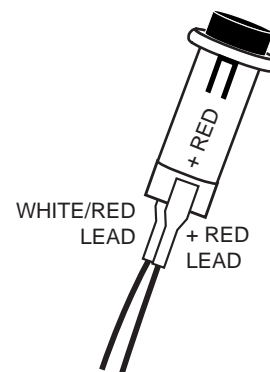
Downlight Fixture— The test switch should be mounted on the fixture to allow access to authorized personnel. Drill or punch a 1/2" mounting hole. Make certain all leads are enclosed in an appropriate wireway. Refer to *Illustration 1*.

Illustration 1
Downlight Fixture



NOTE: Position the Charge Indicator so that it can be seen after installation.

Illustration 2
Charge Indicator



OBSERVE PROPER POLARITY

5. LABELS

Attach the appropriate labels adjacent to the **Test Switch** and **Charge Indicator**. Annotate Re-lamping label for lamp type and wattage. The Caution and the Re-lamping labels must be on the fixture in a readily visible location to anyone attempting to service the fixture.

6. COMPLETING INSTALLATION

- A. When the wiring is complete, the A.C. power is to be turned on permanently, join the unit connector.
- B. Replace the ballast cover, fixture lens and other fixture hardware.
- C. Refer to the "Operation" section below for proper operation.

OPERATION

General—The **I-26-EM-B** is a compact fluorescent emergency ballast. The **I-26-EM-B** is to be used with U.L. Listed fluorescent fixtures. When used with fluorescent downlight fixtures, the **I-26-EM-B** will wire in conjunction with the existing lamp(s) to provide the emergency function.

Normal Mode – A.C. power is present. The A.C. ballast(s) operate the fluorescent lamp(s) as intended. The **I-26-EM-B** is in the standby charging mode. The **Charge Indicator** will be lit providing a visual indication that the battery is being charged.

Emergency Mode – The A.C. power fails. The **I-26-EM-B** senses the A.C. power failure and automatically switches to the *Emergency Mode*. One lamp is illuminated, at reduced output, for a minimum of 90 minutes. When the A.C. power is restored, the **I-26-EM-B** switches the system back to the *Normal Mode* and resumes battery charging. See page 1 of the Instruction Manual.

TESTING & MAINTENANCE

Initial Testing – Allow the unit to charge approximately 1 hour, then conduct a short discharge test. Allow a 24 hour charge before conducting a one hour test.

The **I-26-EM-B** is a maintenance free unit, however, periodic inspection and testing is required. NFPA 101, Life Safety Code, outlines the following schedule:

Monthly – Insure that the **Charge Indicator** light is illuminated. Conduct a 30 second discharge test by depressing the **Test Switch**. One lamp should operate at reduced output.

Annually – Insure that the **Charge Indicator** light is illuminated. Conduct a full 1^{1/2} hour discharge test. The unit should operate as intended for the duration of the test.

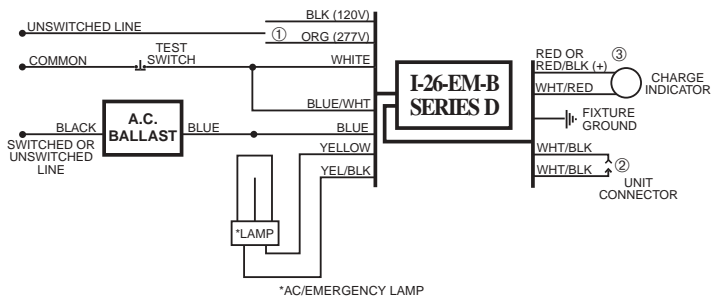
"Written records of testing shall be kept by the owner for inspection by the authority having jurisdiction."

SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL.
Consult Customer Service or visit www.iotaengineering.com for current warranty information.

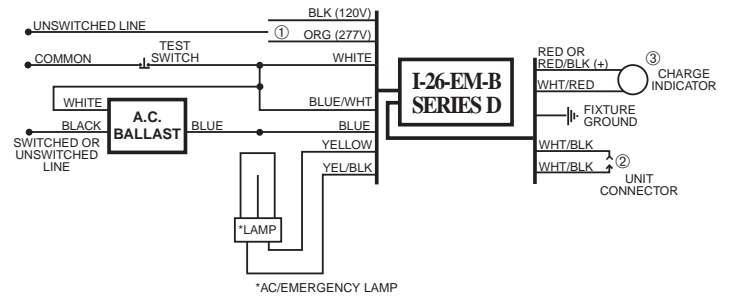
TYPICAL WIRING DIAGRAMS

For use with 2 pin, 26 watt lamps with integral starter only

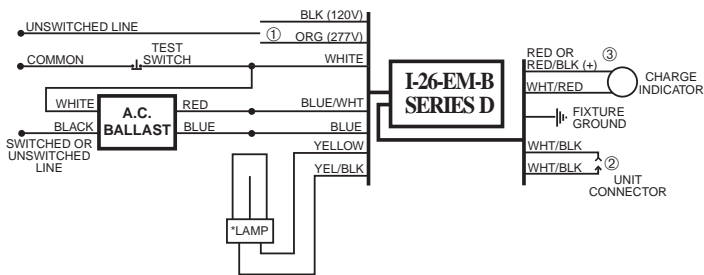
1. ONE LAMP MAGNETIC BALLAST



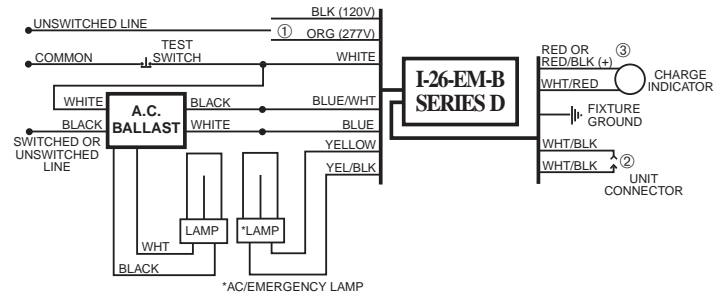
2. ONE LAMP HIGH POWER FACTOR MAGNETIC BALLAST



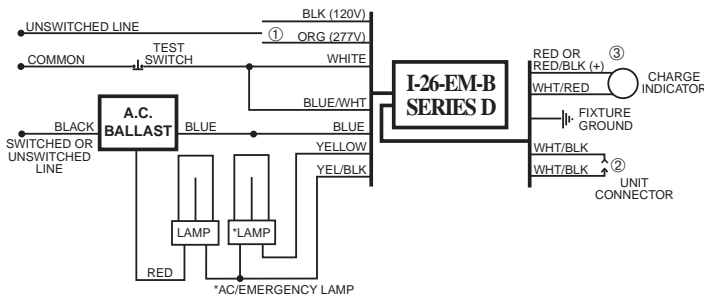
3. ONE LAMP ELECTRONIC BALLAST



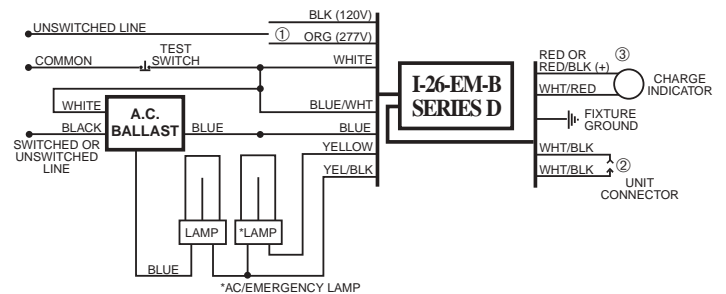
4. TWO LAMP ELECTRONIC BALLAST



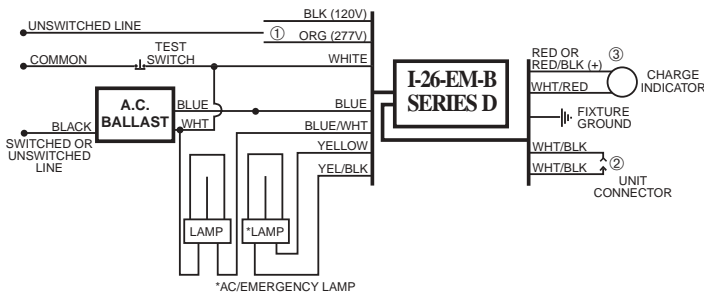
5. TWO LAMP PARALLEL MAGNETIC BALLAST



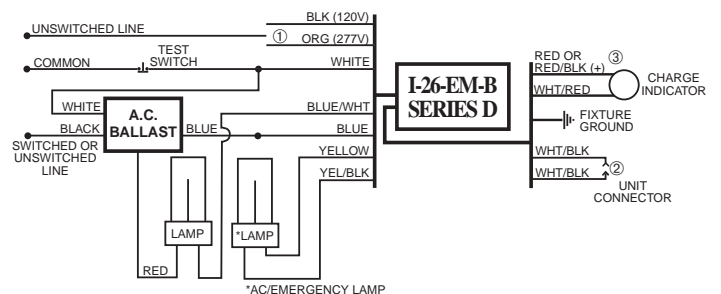
6. TWO LAMP PARALLEL HIGH POWER FACTOR MAGNETIC BALLAST



7. TWO LAMP SERIES MAGNETIC BALLAST



8. TWO LAMP SERIES HIGH POWER FACTOR MAGNETIC BALLAST

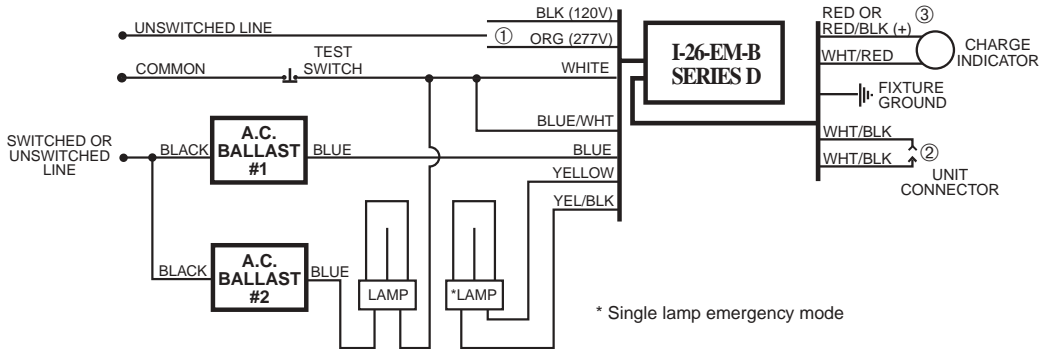


- ① SELECT PROPER VOLTAGE LEAD, CAP UNUSED LEAD.
- ② DO NOT MATE CONNECTOR UNTIL INSTALLATION IS COMPLETE AND A.C. POWER IS SUPPLIED.
- ③ TEST ACCESSORY LEADS-REFER TO INSTALLATION INSTRUCTIONS FOR PROPER POLARITY WIRING.

TYPICAL WIRING DIAGRAMS

For use with 2 pin, 18 through 26 watt lamps with integral starter only.

9. TWO NORMAL POWER FACTOR MAGNETIC BALLASTS



10. TWO HIGH POWER FACTOR MAGNETIC BALLASTS

