



I-26-EM-A

SERIES D
QUAD TUBE
EMERGENCY
LIGHTING EQUIPMENT

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-A is for use with grounded, UL Listed, damp location rated, indoor fixtures. Not for use in heated air outlets or hazardous locations.
5. The I-26-EM-A requires an unswitched A.C. power source of either 120 or 277 volts. Properly cap the unused A.C. lead.
6. The I-26-EM-A and A.C. ballast **must** be on the same branch circuit.
7. Do not mount near gas or electric heaters.
8. The I-26-EM-A should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
9. The I-26-EM-A will cold strike and operate *one* 18W/26W, quad tube, compact fluorescent lamp, two-pin base, including integral starter, each with a single lampholder per lamp.
10. The I-26-EM-A can be used with one or two lamp fixtures; however, only *one* lamp can be operated in emergency mode.
11. Suitable for use in damp locations.
12. For use in 0° C minimum, 50° C maximum ambient temperatures.
13. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition, void warranty, and result in non-compliance with UL specifications.
14. Do not use this equipment for other than intended use.
15. Install in accordance with the National Electrical Code and local regulations.
16. Installation and servicing should be performed by qualified personnel.
17. 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-A unit connector is disconnected.

1. MOUNTING THE I-26-EM-A

When used with ceiling mounted downlight fixtures, the **I-26-EM-A** should be mounted on the fixture above the ceiling. The flex conduit marked "A" should be wired into the ballast/lamp compartment or to an electrical junction box on the fixture which allows access to the ballast/lamp connections. Refer to *Illustration 1* for typical mounting.

When battery packs are remote mounted, consult Customer Service for the maximum allowable distance between the battery pack and the lamp.

2. MOUNTING THE TEST SWITCH AND CHARGE INDICATOR LIGHT

Cut a single gang switch box into the ceiling tile adjacent to the fixture within reach of the **I-26-EM-A** flex marked "B". After mounting the switch box, connect flex "B" to the box and route all leads inside the box. Refer to *Illustration 1* for typical mounting. Connect the leads to the components as follows:

Red/Blk or Red lead w/connector
Wht/Red lead

(+) Charge light terminal
(-) Charge light terminal

White
White/Black

Test switch

*Wht/Blk lead
*Wht/Blk lead

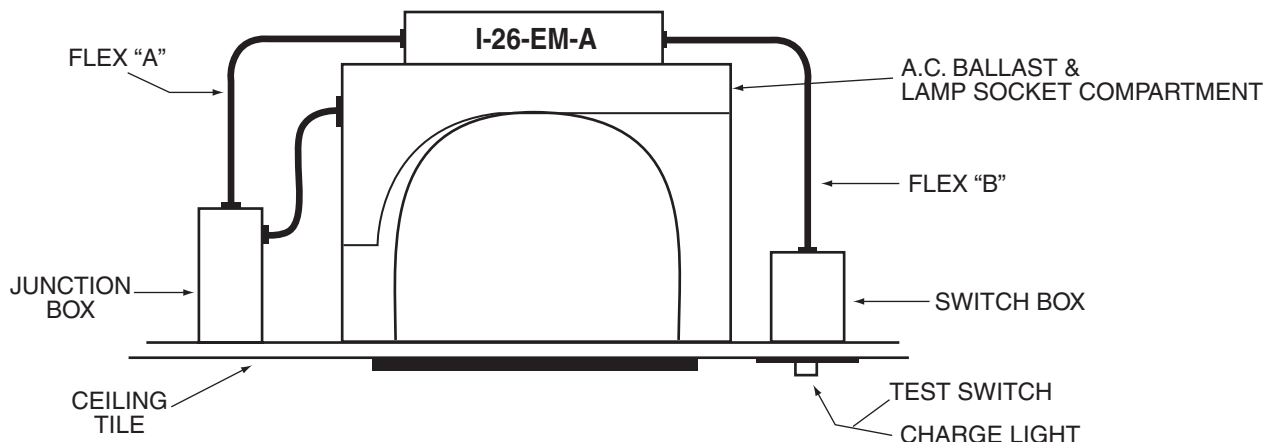
Unit connector
Unit connector

* To prevent electrical shock and unintentional battery discharge, do not join the unit connector until the installation is complete.

3. WIRING

- The **I-26-EM-A** and A.C. ballast **must** be on the same branch circuit.
- The **I-26-EM-A** requires an **unswitched** A.C. power source of either 120 or 277 volts; therefore, when used with switched fixtures, the **I-26-EM-A** input must be wired ahead of the switch.
- Refer to the wiring diagrams on the back page for the proper wiring.

Illustration 1
Downlight Fixture



INSURE WIRING IS IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL REGULATIONS.

4. 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.

5. COMPLETING INSTALLATION

When the installation is complete, switch the A.C. power on and join the **I-26-EM-A** unit connector.

OPERATION

General – This unit is primarily designed to be used with compact fluorescent lamp downlight fixtures. It will wire in conjunction with the existing A.C. ballast(s) and lamp(s) to provide the emergency function. It can also be wired for emergency only operation. The **Test Switch** and **Charge Indicator** light are offered for installation in a standard single gang switch box adjacent to the fixture.

Normal Mode – A.C. power is present. The A.C. ballast operates the fluorescent lamp(s) as intended. The **I-26-EM-A** 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-A** 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-A** 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 by depressing the **Test Switch**. The **Charge Indicator** light will go out and the fluorescent tube will be illuminated. When the **I-26-EM-A** is used in fixtures with more than one A.C. ballast, the second A.C. ballast is NOT de-energized with the **Test Switch**. It may, therefore, be advisable to switch the A.C. fixture power off prior to depressing the **Test Switch**. Allow a 24 hour charge before conducting a one hour test.

The **I-26-EM-A** 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 1½ 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.”

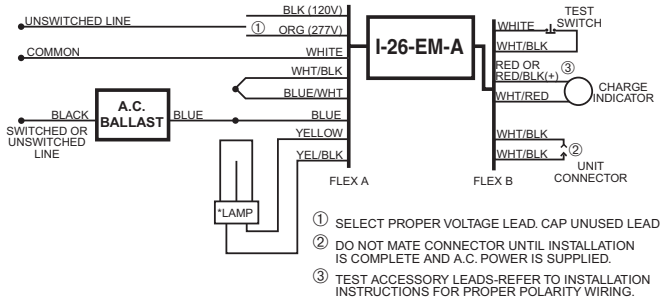
**SERVICING SHOULD BE PERFORMED BY QUALIFIED PERSONNEL.
Consult Customer Service for current warranty information.**

TYPICAL WIRING DIAGRAMS

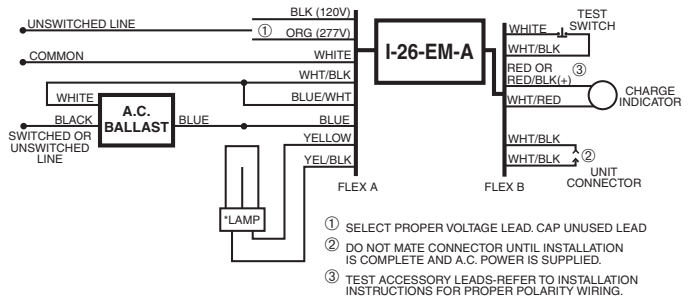
For use with 2 pin, 18 through 26 watt lamps with integral starter only

Wiring and Troubleshooting Tips are available on-line

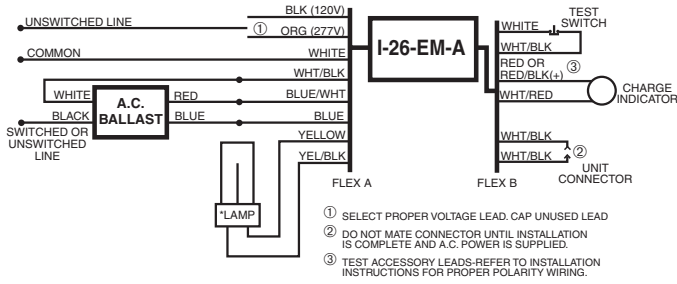
1. ONE LAMP MAGNETIC BALLAST



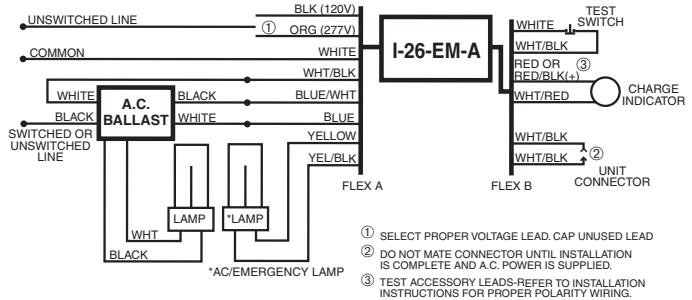
2. ONE LAMP HIGH POWER FACTOR MAGNETIC BALLAST



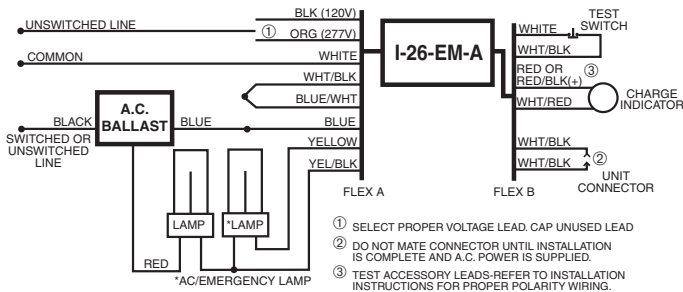
3. ONE LAMP ELECTRONIC BALLAST



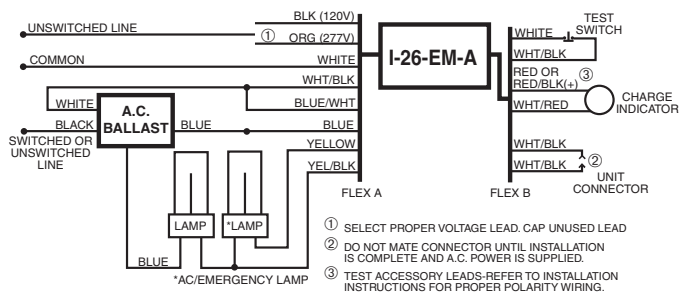
4. TWO LAMP ELECTRONIC BALLAST



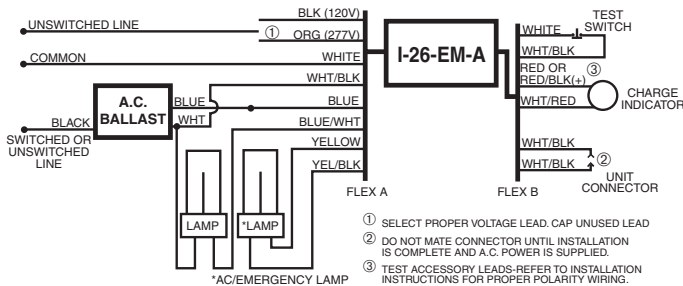
5. TWO LAMP PARALLEL MAGNETIC BALLAST



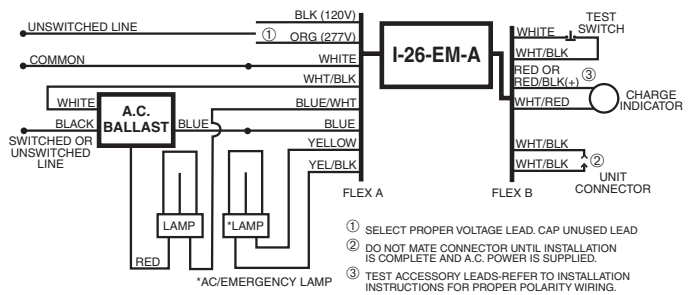
6. TWO LAMP PARALLEL HIGH POWER FACTOR MAGNETIC BALLAST



7. TWO LAMP SERIES MAGNETIC BALLAST



8. TWO LAMP SERIES HIGH POWER FACTOR MAGNETIC BALLAST

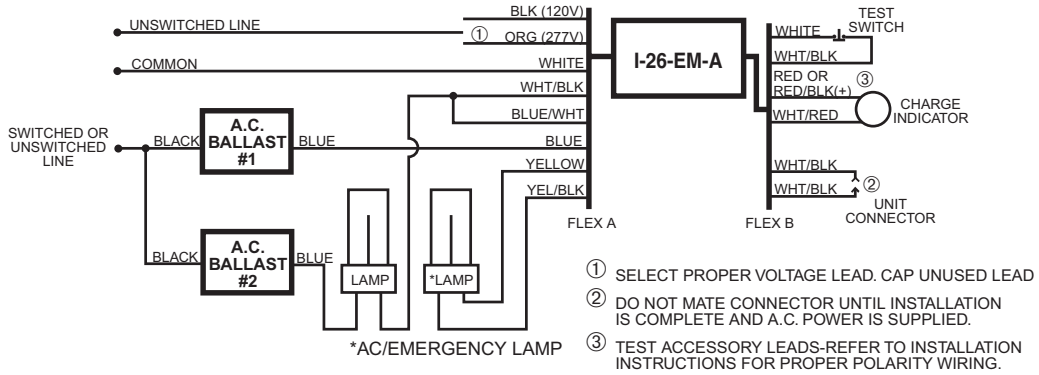


TYPICAL WIRING DIAGRAMS

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

Wiring and Troubleshooting Tips are available on-line

9. TWO NORMAL POWER FACTOR MAGNETIC BALLASTS



10. TWO HIGH POWER FACTOR MAGNETIC BALLASTS

