

AM15

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. The EPA certified RBRC® Battery Recycling Seal indicates voluntary participation in an industry program to collect and recycle these batteries at the end of their useful life, when taken out of service in the United States or Canada. The RBRC program provides a convenient alternative to placing used Ni-Cad batteries into the trash or the municipal waste stream, which may be illegal in your area. Please call 1-800-822-8837 for information on Ni-Cad battery recycling and disposal bans/restrictions in your area. Involvement in this program is part of a commitment to preserving the environment and conserving natural resources.
- 4. **DO NOT USE OUTDOORS.** The **AM15** is for use with grounded, UL Listed, indoor fixtures except in heated air outlets or hazardous locations.
- 5. The **AM15** 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 **AM15** should be mounted in locations and at heights where it will not be subjected to tampering by unauthorized personnel.
- 8. The **AM15** 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.
- 9. The **AM15** can be used with one or two lamp fixtures; however, only *one* lamp can be operated in emergency mode.
- 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.
- 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





Thomas&Betts

INSTALLATION INSTRUCTIONS

CAUTION: Before installing, make certain the A.C. power is off and the AM15 unit connector is disconnected.

MOUNTING THE AM15

When used with ceiling mounted downlight fixtures, the **AM15** 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, 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 121/2'. Under no circumstances should the battery pack exceed a distance of 50' from the lamp.

2. MOUNTING THE TEST SWITCH AND CHARGE INDICATOR LIGHT

Cut the single gang switch box into the ceiling tile adjacent to the fixture within reach of the **AM15** 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:

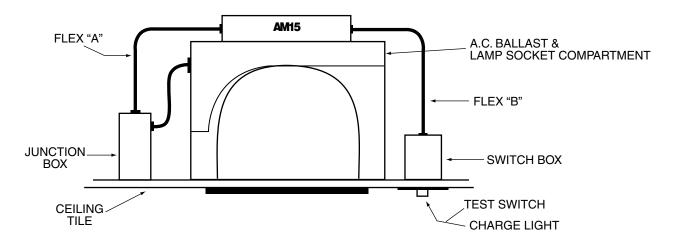
Red lead (+) Charge light terminal
Wht/Red lead (-) Charge light terminal
White

Test switch
*Wht/Blk lead Unit connector
*Wht/Blk lead Unit connector

3. WIRING

- A. The AM15 and A.C. ballast must be on the same branch circuit.
- B. The **AM15** requires an *unswitched* A.C. power source of either 120 or 277 volts; therefore, when used with switched fixtures, the **AM15** input must be wired ahead of the switch.
- C. 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.

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

4. LABFLS

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

A. When the installation is complete, switch the A.C. power on and join the AM15 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 in a standard single gang switch box for installation adjacent to the fixture.

Normal Mode – A.C. power is present. The A.C. ballast operates the fluorescent lamp(s) as intended. The **AM15** 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 **AM15** 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 **AM15** 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 **AM15** 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 **AM15** 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.

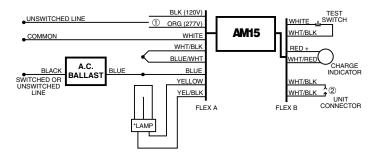
"Written records of testing shall be kept by the owner for inspection by the authority having jurisdiction."

Consult Customer Service for current warranty information.

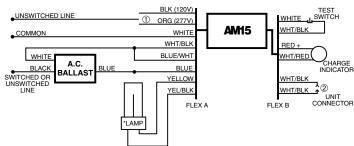
TYPICAL WIRING DIAGRAMS

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

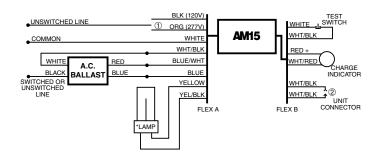
1. ONE LAMP MAGNETIC BALLAST



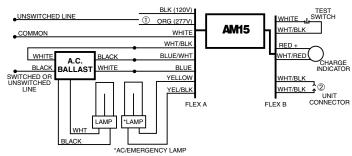
2. ONE LAMP HIGH POWER FACTOR MAGNETIC BALLAST



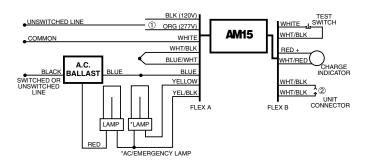
3. ONE LAMP ELECTRONIC BALLAST



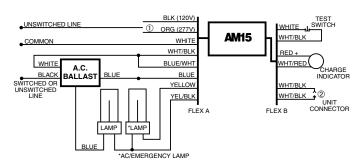
4. TWO LAMP ELECTRONIC BALLAST



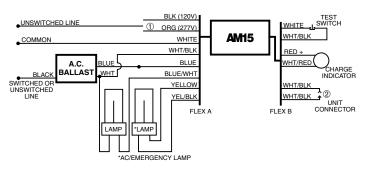
5. TWO LAMP PARALLEL MAGNETIC BALLAST



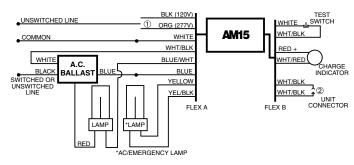
6.TWO LAMP PARALLEL HIGH POWER FACTOR MAGNETIC BALLAST



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.

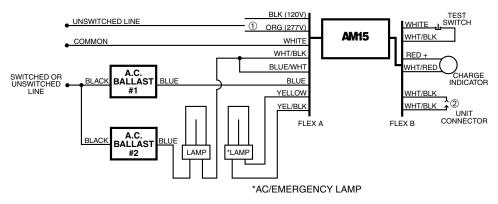


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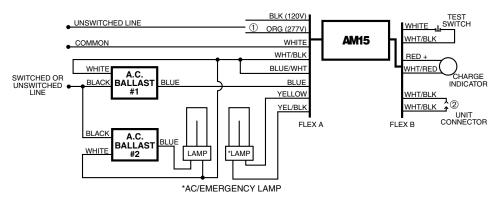
TYPICAL WIRING DIAGRAMS

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



TEL. (888) 935-3810 FAX. (888) 807-136

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