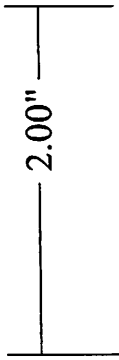


INSTALLATION INSTRUCTIONS
650 Lumens 4pin

When using this lighting device
the safety precautions should be followed at all time

PLEASE READ CAREFULLY AND FOLLOW ALL INSTRUCTIONS FOR YOUR OWN SAFETY

1. This device is designed for indoor use. Do not use outdoors.
2. Prior to installation, battery connector must be open to prevent high voltage from being present on out put leads (red & yellow).
3. This device is designed for use with
   ONE OR TWO 17W-28W tubular fluorescent lamps with no integral starter; or
   ONE 18W-42W 4-pin compact fluorescent lamps with no integral starter; or
   TWO 18W-39W 4-pin compact fluorescent lamps with no integral starter.
4. Please ensure the electricity connections conforms to the National Electrical Code and local regulations if applicable.
5. To avoid electric shock, please disconnect normal and emergency power supplies, and battery connector of the emergency ballast before servicing.
6. This device is designed for factory or field installation in either the ballast channel, or on top of the indoor fixture, except air handling heated air outlets, wet or hazardous location fixtures. Do not install this device near gas or electric heaters.
7. AC power source of 120VAC or 277VAC is required.
8. The battery is sealed, non-maintenance, and is not replaceable in the field. Please contact manufacturer for information on service. Do not attempt to service the battery please.
9. Do not use accessory equipment that is not recommended by manufacturer. Failure to do so may cause unsafe conditions. Servicing should only be performed by qualified service personnel.
10. Do not use the product for other purpose that the product is NOT designed for.

PLEASE SAVE THESE INSTRUCTIONS

INSTALL INSTRUCTION

NOTE: All the branch circuit wiring has to be ready as well as an unswitched source of power before the fixture is installed. Confirmed the same branch circuit would the emergency ballast as AC ballast.

CAUTION: Inverter connector has to be opened for preventing high voltage on output leads (Red and Yellow). Wait until all the installation process is completed and AC is supplying power to the emergency ballast then join the inverter connector.

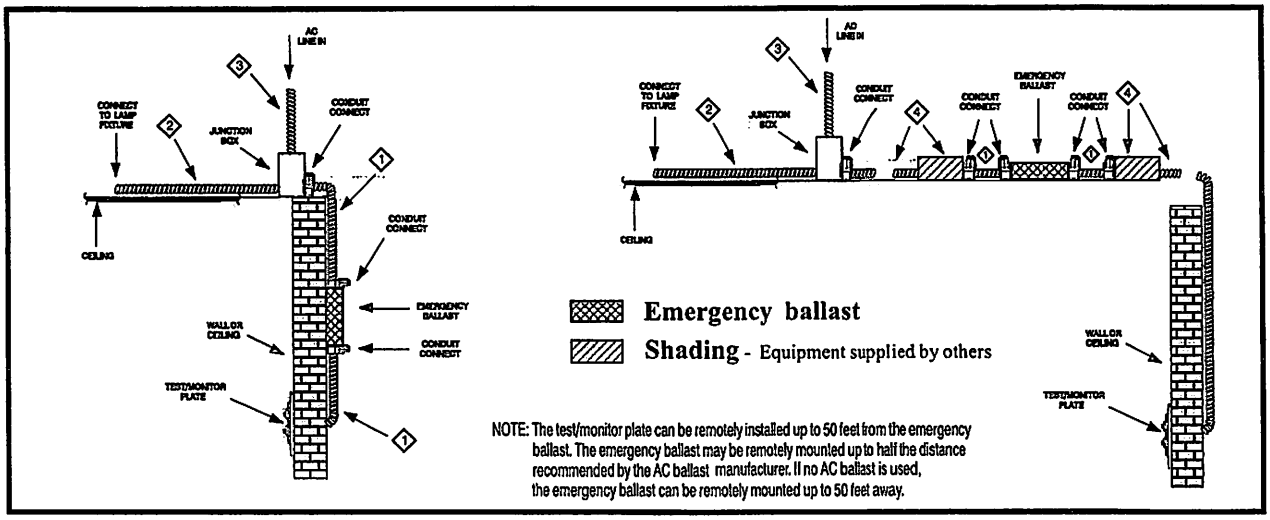
1. AC power has to be off before installation.
2. Choose the right wiring diagram to connect the emergency ballast to AC ballast and lamp.
3. The emergency ballast can be used with on more than 2 lamps fixture and operates no mor than two lamps when there is emergency mode. (Study the wiring schematics before connecting the wire.
4. Follow diagram 1 to connect the emergency ballast and test plate. Please ensure the electricity connections conform to the National Electrical Code and local regulations if applicable. Install the test plate close to the fixture or at a remote location within 50feet is recommended. The emergency ballast install up to half distance the AC ballast manufacturer recommends install the AC ballast from the lamp or install within 50feet is recommended. Please choose the one in less distance. The emergency ballast could be mounted within 50feet if there isn't AC ballast.
5. Cut the wire between the lamp holder and AC ballast and then connect the blue and blue/white wire from emergency ballast to AC ballast and the yellow and yellow/black wires to the lamp holder.
6. The emergency ballast has to be connecting to an unswitched 120VAC or 277VAC power source with no exception. Other voltages are not accepted!! Do not join the inverter connector until the fixture is completely installed and supply AC power to the emergency ballast.
7. An additional unswitched hot wire (120VAC or 277VAC) has to be run to the junction box and connected to the emergency ballast if there is in ON SWITCHED FIXTURES.
8. The battery needs to be charged for one hour in order to have short-term testing on the emergency function. Before having a long-term emergency function testing, the battery in emergency ballast has to be charged for 24 hours.
9. Please search in readily visible location and stick the label with "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."
10. Max Mounting Height:7ft.

NOTE: SWITCH BOX IS NOT SUPPLED

OPERATION:

THE CHARGING INDICATOR LIGHT WOULD BE ON TO INDICATE THE BATTERY IS BEING CHARGED WHEN WHEN AC POWER IS APPLIED.
THIS EMERGENCY BALLAST WOULD FUNCTION AND OPERATE ONE OR TWO LAMPS AT REDUCE ILLUMINATION WHEN THE AC POWER IS FAILED.
THE DEVICE OF THIS EMERGENCY BALLAST WILL OPERATE 6 WATT TO 42 WATT LAMPS AT LEAST 90MINUTES.

DIAGRAM A



① – Flexible conduit (supplied) to connect ballast wire.

② – Existing conduit to run existing wire to lamp holder (AC ballast on junction box). If AC ballast is on reflector, run yellow, yellow/black, blue/ white and blue wires from emergency ballast through this conduit.

③ – AC line in.

④ – Conduit and junction box (not supplied), necessary for remote installation.

MAINTENANCE:

NOTE: SERVICES SHOULD ONLY PERFORMED BY QUALIFIED PERSONNEL.

THE EMERGENCY BALLAST SHOULD BE CHECKED PERIODICALLY TO CONFIRM FUNCTIONING AND THE FOLLOWING SCHEDULE IS RECOMMENDED.

1) TO INSPECT THE CHARGING INDICATOR EVERY MONTH AND CONFIRM THAT IS ILLUMINATED.

2) PUSH THE TEST SWITCH FOR 30 SECONDS TO ENSURE THE EMERGENCY BALLAST IS FUNCTIONING. RECOMMENDED TO PERFORM THIS TESTING IN EVERY 30 DAYS.

3) PERFORMING A LONG-TERM TEST (90 MINUTE BATTERY DISCHARGE) IN EVERY YEAR. ONE OR TWO LAMPS SHOULD BE OPERATED FOR NO LESS THAN 90 MINUTES.

WIRING DIAGRAMS FOR 2 - LAMP EMERGENCY OPERATION

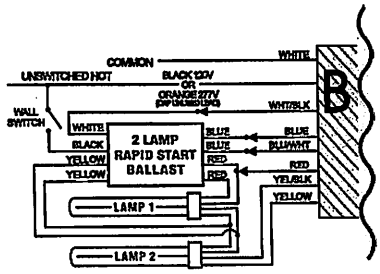
EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

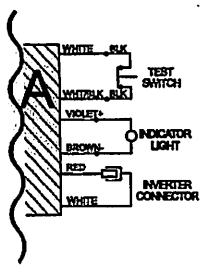
Two lamp emergency operation for lamps up to 39 W

A. TWO (2) FOUR PIN COMPACT LAMP RAPID START BALLAST

1.B) FLEX Conduit Wiring Diagram:



2.A) FLEX Conduit Wiring Diagram:



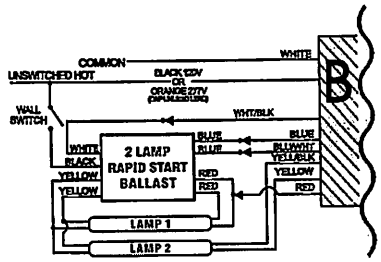
WIRE DIAGRAMS FOR 1-LAMP EMERGENCY OPERATION

EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

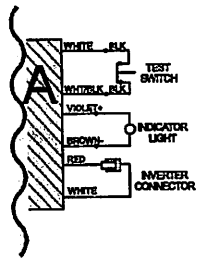
TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

B. TWO (2) LAMP RAPID START BALLAST

1.B) FLEX Conduit Wiring Diagram:

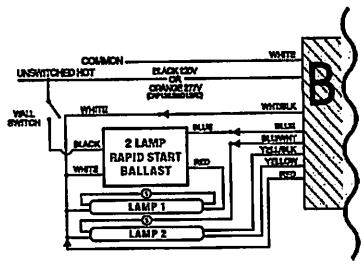


2.A) FLEX Conduit Wiring Diagram:

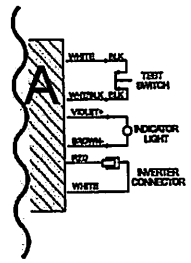


C. TWO (2) LAMP PREHEAT BALLAST (Lamp 2 operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:

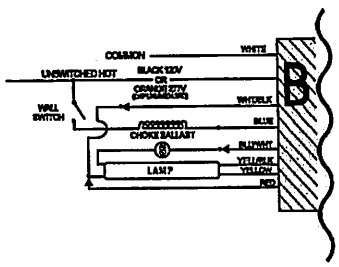


2.A) FLEX Conduit Wiring Diagram:

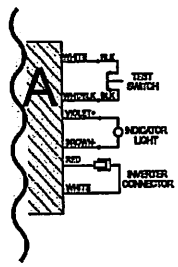


D. ONE (1) LAMP CHOKE BALLAST

1.B) FLEX Conduit Wiring Diagram:

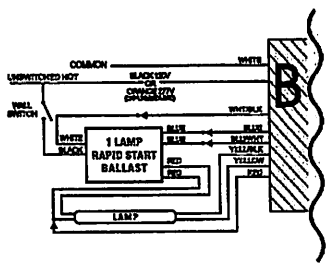


2.A) FLEX Conduit Wiring Diagram:

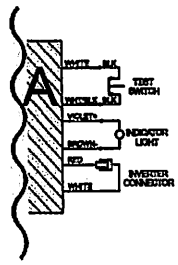


E. ONE (1) LAMP RAPID START BALLAST

1.B) FLEX Conduit Wiring Diagram:



2.A) FLEX Conduit Wiring Diagram:



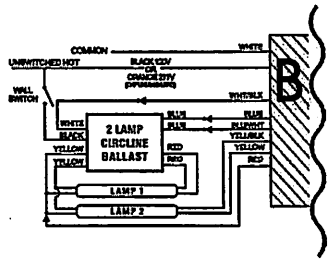
WIRE DIAGRAMS FOR 1-LAMP EMERGENCY OPERATION

EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

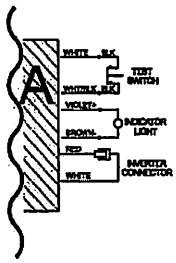
TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

F. TWO (2) LAMP RAPID START BALLAST (Lamp 2 operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:

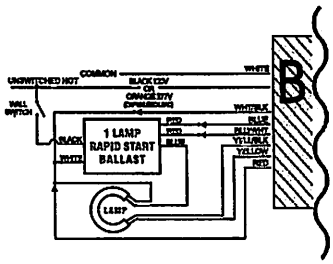


2.A) FLEX Conduit Wiring Diagram:

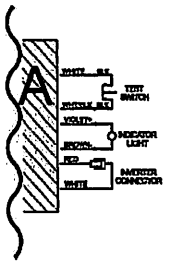


G. ONE (1) LAMP CIRCLINE RAPID START BALLAST

1.B) FLEX Conduit Wiring Diagram:

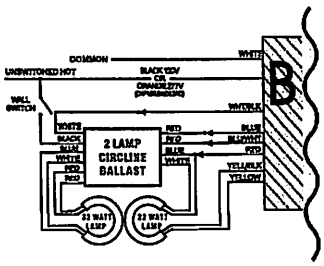


2.A) FLEX Conduit Wiring Diagram:

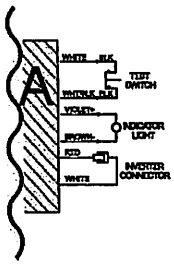


H. TWO (2) LAMP CIRCLINE RAPID START BALLAST (22 watt lamp operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:

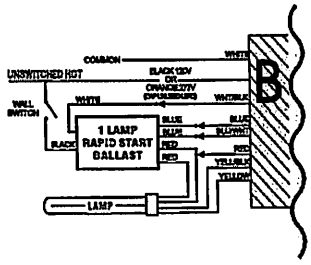


2.A) FLEX Conduit Wiring Diagram:

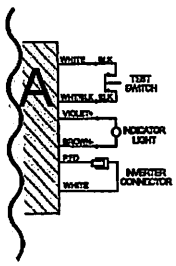


I. ONE (1) FOUR PIN COMPACT LAMP RAPID START BALLAST

1.B) FLEX Conduit Wiring Diagram:



2.A) FLEX Conduit Wiring Diagram:



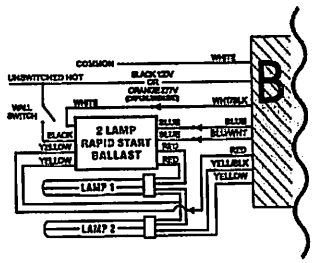
WIRE DIAGRAMS FOR 1-LAMP EMERGENCY OPERATION

EMERGENCY BALLAST AND AC BALLAST MUST BE FED FROM THE SAME BRANCH CIRCUIT

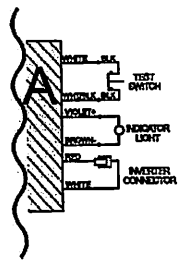
TYPICAL SCHEMATICS ONLY. MAY BE USED WITH OTHER BALLASTS. CONSULT THE FACTORY FOR OTHER WIRING DIAGRAMS.

J. TWO (2) FOUR PIN COMPACT LAMP RAPID START BALLAST (Lamp 2 operates in emergency mode)

1.B) FLEX Conduit Wiring Diagram:



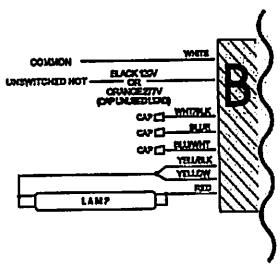
2.A) FLEX Conduit Wiring Diagram:



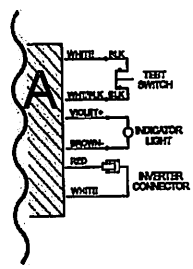
WIRING DIAGRAMS FOR EMERGENCY-ONLY FIXTURES

K. ONE (1) LAMP WITHOUT AC BALLAST

1.B) FLEX Conduit Wiring Diagram:

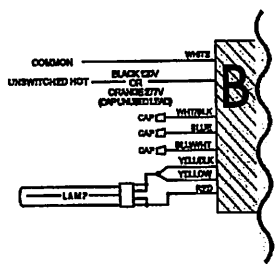


2.A) FLEX Conduit Wiring Diagram:



L. ONE (1) FOUR PIN COMPACT LAMP WITHOUT AC BALLAST

1.B) FLEX Conduit Wiring Diagram:



2.A) FLEX Conduit Wiring Diagram: