Chicago LED Steel Exit Combination Unit

WARNING:
Risk of Shock.
Disconnect Power before Installation.

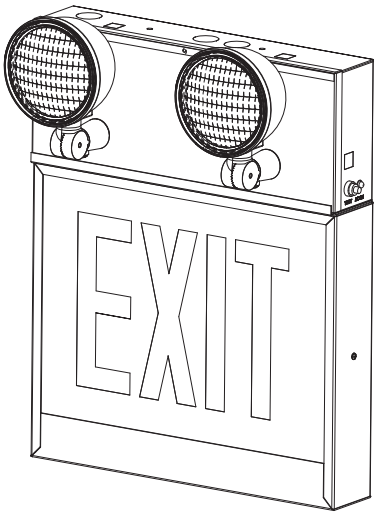

Figure 1

IMPORTANT SAFEGUARDS

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

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. All servicing should be performed by qualified service personnel.
2. All unused wires must be insulated to prevent shorting.
3. Consult your local building code for approved wiring and installation.
4. Do not use outdoors.
5. Do not let power supply cords touch hot surfaces.
6. Do not mount near gas or electric heaters.
7. Use caution when handling batteries. Avoid possible shorting.
8. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
9. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
10. Do not use this equipment for other than intended use.
11. Allow battery to charge for a full 24 hours after installation or power failure before testing.
12. Unit to be installed only as per configuration described in this instruction manual.

SAVE THESE INSTRUCTIONS

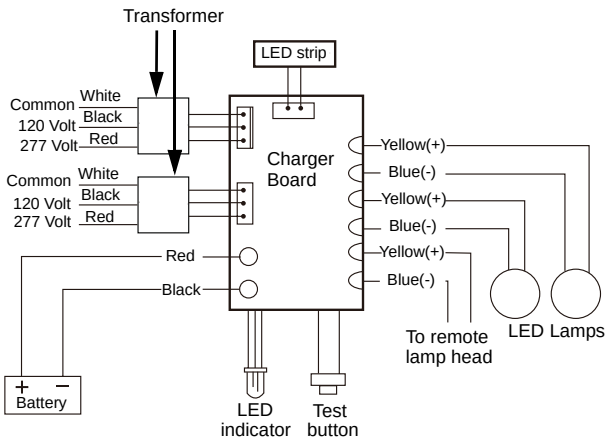

Figure 2

Installation Instructions

IMPORTANT: Install product no higher than the maximum mounting height of 20 feet 6 inches from the floor.

1. Turn off AC power.
2. Route AC circuit of rated voltage into the junction box and leave 6” wire length.
3. Remove retainer screw from right side of the sign. Remove side panel and mounting canopy, set aside.
4. Remove retainer screw from the front cover of the unit. Remove the front cover and set aside.
5. For double face unit (OPTION): remove the back plate and replace it with the second face plate provided (end mount only).

Wall mounting

a. Knock out the proper hole pattern in the back plate to mount to a standard junction box and the two key holes located at the top of the unit housing. Place a support on either side of the knockouts to be removed and then knock out with a screwdriver.

b. Use bushings provided to protect wires from metal edge.

c. Install wire mounting clips to back plate.
d. Secure wires using wire mounting clips and feed AC supply leads out through the center bushing.
e. The system can accept input voltages of 120 VAC or 277 VAC. Therefore, connect the black (120 VAC) or red (277 VAC) and white (common) leads to the building utility. Connect the green ground wire to the service ground (see fig. 2).
f. Feed excess wire into the junction box.
g. Mount the unit securely to the junction box using the junction box screws. Using the two key holes provided, secure the top portion of the unit to the wall. Additional chain support may be required by local codes.

Ceiling or End mount

a. Fasten the spider plate to the junction box using the junction box screws.
b. Using a hammer and screwdriver, remove the proper knockouts in the frame for the canopy. The knockouts are located on the left side for end mount or on the top for ceiling mount.
c. Fasten the canopy to the frame using two short screws and keps nuts provided.
d. Route unit wires out through the large hole of the frame canopy assembly.
e. The system can accept input voltages of 120 VAC or 277 VAC. Therefore, connect the black (120 VAC) or red (277 VAC) and white (common) leads to the building utility. Connect the green ground wire to the service ground (see fig. 2).
f. Feed excess wire into the junction box.
g. Install the frame canopy assembly to the two threaded holes in the spider plate using the two long screws provided.

6. Carefully replace the glass into the sign frame channel and replace end panel retainer screw.
7. Connect battery connectors to the battery as follows: Red (+) lead from the PCBA to the positive (+) terminal on the battery and the Black (-) lead from the PCBA to the negative (-) terminal on the battery.

⚠ **WARNING:** Failure to connect the battery properly will result in equipment failure and an unsafe condition

8. Replace and secure the front cover.
9. Turn on AC supply. The charge indicator lights will illuminate.
10. Adjust lamp heads to desired position.

Manual Testing

To test the equipment, depress the TEST switch. The charge (LED) indicator will turn OFF, the Exit sign will remain lite and the emergency lights will illuminate. After testing, the automatic charger will restore the battery and try to maintain it at a fully charged state.

⚠ **CAUTION:** This equipment is furnished with a sophisticated solid state transfer switch which will automatically disconnect the emergency lights from the battery if the battery has been discharged to the end of its useful output.

NFPA 101 (Life Safety Code) requires that all emergency lighting equipment be functionally tested every 30 days for a minimum of 30 seconds and tested annually for a full 90 minute duration. Written records of the testing are to be kept for examination by the authority having jurisdiction.

Maintenance

None required. Unit should be tested monthly in accordance with safety codes and local codes.
Battery has a life expectancy of 5-7 years when use in a normal ambient temperature of 72°.
When relamping, only use LED light sources specified. Using other LED light sources may result in transformer damage or unsafe conditions.
Clean lens(es) and replace lamp(s) as, and when, required.
If AC supply to the unit is to be disconnected for 2 months or more, the battery must be disconnected.

Trouble shooting guide

If LED heads or LED indicator does not illuminate, check the following:

1. Check AC supply.
2. Unit has shorted or battery is not connected.
3. Battery discharge. Connect unit to AC supply and allow battery to charge for 24 hours before re-testing.
4. If above trouble shooting hints do not solve your problem, contact factory for assistance.