400EX Series
Installation Instructions

EXITRONIX®
emergency lighting
BARRON

IMPORTANT SAFEGUARDS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

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

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations, if applicable.
- Do not mount near gas or electrical heaters.
- Do not use outdoors.
- Do not let power supply cords touch hot surfaces.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.
- Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush acid with fresh water and contact a physician immediately.
- Unpack and check for concealed transit damage.
- Report any transit damage to delivering carrier and file claim.

SAVE THESE INSTRUCTIONS!

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Ceiling or End Mount

1. Remove faceplate cover by pulling equally at the outer rim of the faceplate on two opposite sides. Remove ground wire from faceplate (Fig. 1).

2. Pop out the plastic mounting hole cover on the top or the side of the sign. Place one of the nuts from threaded stem rod in the slot inside the housing just inside of the unit (Fig. 2).

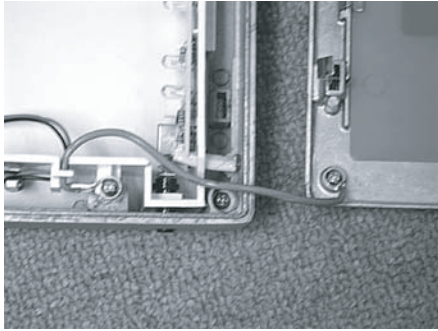3. Feed the AC supply and ground wire through the nut & hole and out of the sign housing (Fig. 3).

Fig. 1

Fig. 2

Fig. 3

4. Secure the canopy J-Box cover to the mount area of the EXIT sign by inserting it and shifting it over to align the hole.

5. Feed AC supply wires and ground wire through threaded stem and screw stem into nut inside unit. Screw the remaining nut for the threaded stem onto the stem and tighten securely to complete the mounting of the canopy to the EXIT sign (Fig. 4).

6. Determine the position the EXIT needs to be mounted (the way the face needs to be pointed). Use the included round J-Box mounting plate and small #8-32 screws to accomplish (Fig. 5).

7. Make electrical connections; see **Electrical Connections** section.

8. Mount the sign to the J-Box plate with the (2) #8-32 screws provided and tighten securely (Fig. 6).
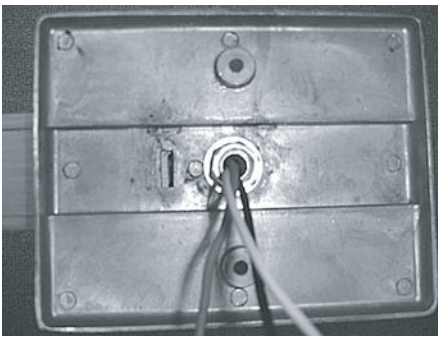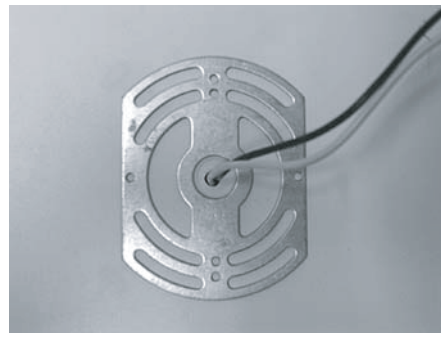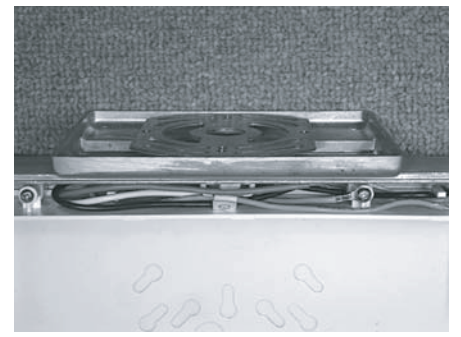
Fig. 4

Fig. 5

Fig. 6

9. Remove the proper chevron(s) from the EXIT legend(s) if necessary. Reattach the ground wire to the faceplate (Fig. 1).

10. Attach battery jumper wire (where applicable) to PCB and replace faceplate to complete installation.

Wall Mount

1. Remove faceplate cover by pulling equally at the outer rim of the faceplate on two opposite sides. Remove ground wire from faceplate (Fig. 1).

2. Remove the center knockout and also required knockouts that will match the J-box.

3. Route the wires through the center knockout. Make electrical connections; see **Electrical Connections** section. Push wires back against the back of the sign to minimize any of the wires interfering with the illumination of the letters.

4. Now mount the sign to the J-Box.

5. Remove the proper chevron(s) from the EXIT legend(s) if necessary. Reattach the ground wire to the faceplate (Fig. 1).

6. Attach battery jumper wire (where applicable) to PCB and replace faceplate to complete installation.

Electrical Connections

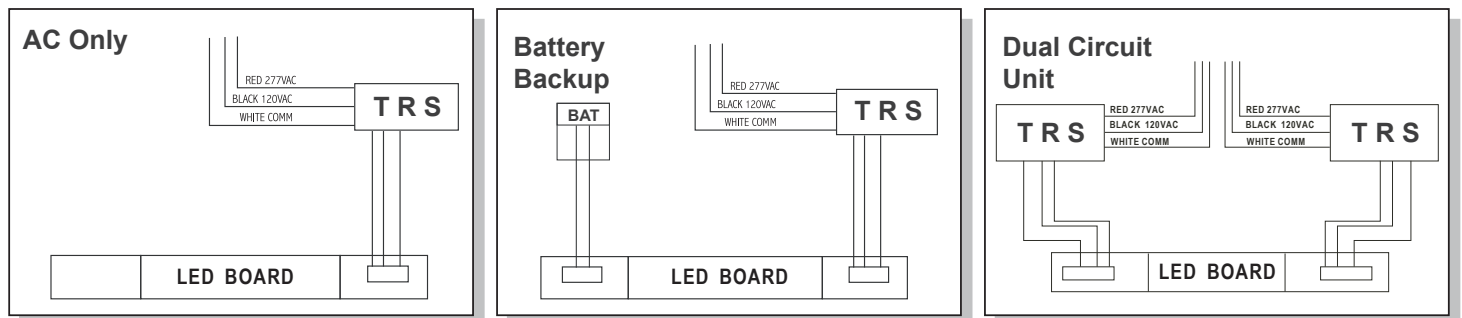All electrical connections should be made inside the J-box. Make electrical connections as follows:

120VAC
White - Common
Black - 120VAC
Green - Ground

277VAC
White - Common
Red/Orange - 277VAC
Green - Ground

Note: Cap unused leads to prevent shorting.
Be sure all wiring is routed around cavity of enclosure to avoid shadowing on faceplate.

AC Only

RED 277VAC
BLACK 120VAC
WHITE COMM

T R S

LED BOARD

Battery Backup

BAT

RED 277VAC
BLACK 120VAC
WHITE COMM

T R S

LED BOARD

Dual Circuit Unit

T R S

RED 277VAC
BLACK 120VAC
WHITE COMM

RED 277VAC
BLACK 120VAC
WHITE COMM

T R S

LED BOARD

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Self-test/Self-diagnostics (G2)
Operation
The purpose of this option is to provide Self-testing and Self-diagnostic capabilities to the EXIT sign. At predetermined intervals, the EXIT sign will automatically switch into battery mode. Refer to the **Self-Test Features** section of this page for timing details. The EXIT sign will also perform various Self-diagnostic tests of the unit. Visual signaling will alert maintenance personnel to a fault of the EXIT sign electronics, battery and/or battery charger. The circuitry continuously monitors the operating condition of the EXIT sign and battery charging circuit/battery supply voltage. Refer to the **LED Indicator** section below for fault reporting details.

Self-Test Features
- The EXIT sign will automatically switch to battery mode every 30 days for a period of 30 seconds.
- The EXIT sign will automatically switch to battery mode every 180 days for a period of 30 minutes.
- The EXIT sign will automatically switch to battery mode every 365 days for a period of 90 minutes.

LED Indicator
Once the unit is properly installed according to the installation instruction sheet and AC power is supplied, the unit will turn on and the Self-diagnostic test function will initiate. After this, the bi-color LED will indicate the status of the unit.

- A solid green LED indicates that normal AC power is being supplied to the EXIT sign.
- A blinking green LED indicates that the EXIT sign is in testing mode.
- A flashing red and green LED indicates that the battery is charging.
- A red (solid or blinking) LED indicates whenever the self-diagnostic system has detected a fault condition. Refer to the chart below when the LED is solid or blinking red:

Number of Blinks	Unit Fault	Corrective Action
Solid	Battery is Disconnected	Check Battery Connections
1	Battery Recharge Failure	Check Battery then Consult Factory
2	Battery Failure	Replace Battery
3	LED Failure	Check Battery then Consult Factory

- The LED will be OFF when the EXIT sign is in emergency mode.

NOTE: A battery recharge failure is more likely seen after a monthly or annual auto-discharge.
A battery failure is more likely seen when the unit goes into a monthly or annual discharge test and/or fails to run the LED strip for the designated amount of time in self-test mode.

Test Switch
MANUAL TEST – Pressing the test button will switch the unit into battery mode for a set amount of time. The desired length of the test is determined by the number of times the test button is pressed.

- Pressing the test button once will switch the unit into battery mode for a period of 30 seconds. The LED will flash green.
- Pressing the test button twice within 2 seconds will switch the unit into battery mode for a period of 30 minutes. The LED will blink green 2 times.
- Pressing the test button thrice within 2 seconds will switch the unit into battery mode for a period of 90 minutes. The LED will blink green 3 times.

Pressing and holding the test button for 3-5 seconds while the unit is MANUAL TEST mode will cancel the manual test and return the unit to normal AC power.

RESET – Pressing and holding the test button for more than 6 seconds will reset the red LED. If multiple faults are present, it may be necessary to repeat this procedure for each remaining fault indicated by the LED.

Use in accordance with local building codes.

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