

Part Number: ZXE – 5000-UNV Series

LED Exit Sign Retrofit Kit with Universal Voltage (120-277V)

(corresponds to model number: ZXE-5000-I and ZXE-5000-E)

READ AND FOLLOW THESE INSTRUCTIONS BEFORE INSTALLING

SAFETY PRECAUTIONS:

Read all safety precautions and instructions carefully before installing or servicing this fixture. Failure to comply with these instructions could result in potentially fatal electric shock and/or property damage and void the warranty.

This LED Retrofit kit may not be used with any type of dimmer.

To reduce the risk of fire, electric shock or injury to persons:

- Install in accordance with the National Electrical Code and local codes.
- Installation should be done by a licensed electrician.
- Disconnect power source and turn off breaker before beginning when building is unoccupied.
- **Only install in a UL-924 listed sign.**
- Do not handle an energized fixture or attempt to energize any fixture with wet hands or while standing on a wet or damp surface.
- Use only insulated staples or plastic ties to secure cords or wires.
- Route and secure cords or wires so that they will not be pinched or damaged.
- Be sure to mount the fixture on a surface that is structurally sound. Mounting brackets/screws are intended for installation on wood or metal surfaces. Do not install over a heat source.
- Not for use with dimmer switch.
- This kit is not to be used to retrofit exit lights containing batteries, or exit fixtures connected to a DC source of supply, or exit lights connected to more than one source of supply.
- This fixture is intended to be used in dry locations only.
- There are no user serviceable parts in this LED retrofit kit. Do not attempt to replace LEDs or the driver/power supply.
- Carefully check each exit light at least every 30 days to be sure it is operating at full brightness and replace the fixture if it is not.
- Installation of this kit is subject to inspection by the authorities having jurisdiction.
- An exit sign is a critical safety light. If, after installation, the sign is not fully lit and clearly visible from at least 100 ft away, remove the LED fixture and re-install the light source that had been there before. This LED retrofit kit will work properly in most, but not all, exit signs.
- Not intended for use with exit signs which include battery or DC power supply.
- The current rating of the kit multiplied by the total number of kits installed in exit signs on a branch circuit shall not exceed 80 percent of the rating of the branch circuit protective device.
- Do not use if product and its use do not comply with the above

NOTE: BEFORE INSTALLING the LED retrofit kits, existing exit sign fixtures must be disassembled. Remove the fluorescent or incandescent bulb(s), ballasts (in fluorescent fixtures) and hardware in accordance with the instructions provided with your UL-924 certified exit sign fixture.

Check which LED retrofit kit model number you are installing (listed on the back of the fixture) before beginning and then follow corresponding instructions. For Part Number ZXE-5000-E-UNV, follow pages with the prefix of “E” (pages E-I, E-1, E-2) For the ZXE-5000-I-UNV, follow pages with the prefix of “I” (pages E-I, I-1, I-2).

This kit is intended for use with box type signs that fit the dimensions listed. FOR USE ONLY WITH EXIT FIXTURE ++ MANUFACTURED BY Western Lighting, where the ++ is AL Series and SL/EM Series and Models: SL-3-R/W-xxx-120, where xxx represents PL5, PL7, LL, LL-15, FL, and M; and VNDL-3-R/W-xxx-120, where xxx represents PL5, PL7, LL, LL-15, FL, and M, and EDG-R-18-R/W-120/277 or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY Alcco Lighting, where the ++ is EA Series, PRC/CP Series and Models SGLOFLX1-2-RW, SGLOFLX2-2-RW, RGLOFL1-2-RW, and RGLOFL2-2-RW or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY Lithonia, where the ++ is FX/F2X Series, XS/XP Series, and Models LRP-1RW-xx-120/277-PNL, and LRP-1RMR-xx-120/277-PNL, where xx represents LA, RA, LRA, DA or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY High Lites, where the ++ is Model APS-1-R-C-3-18-120/277 or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY Cooper Lighting, where the ++ is PLX Series, CCX Series, and Model CHX203C-120/277, and CHX403C-120/277 or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY Surelite, where the ++ is PLX Series, CCX Series, and Model CHX203C-120/277, and CHX403C-120/277 or FOR USE ONLY WITH EXIT FIXTURE, ++ MANUFACTURED BY Lightolier, where the ++ is Models MJX-AC-X-1-RW-3-18-120/277 and MIX-AC-X-2-RW-3-18-120/277, ++ MANUFACTURED BY Big Beam, where the ++ is CX Series, ++ MANUFACTURED BY Alpha, where the ++ is 4100 Series.

See complete warranty at www.radionichitech.com

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HI-TECH, INC.

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EXTERNAL POWER SUPPLY with BOX TYPE Exit Sign

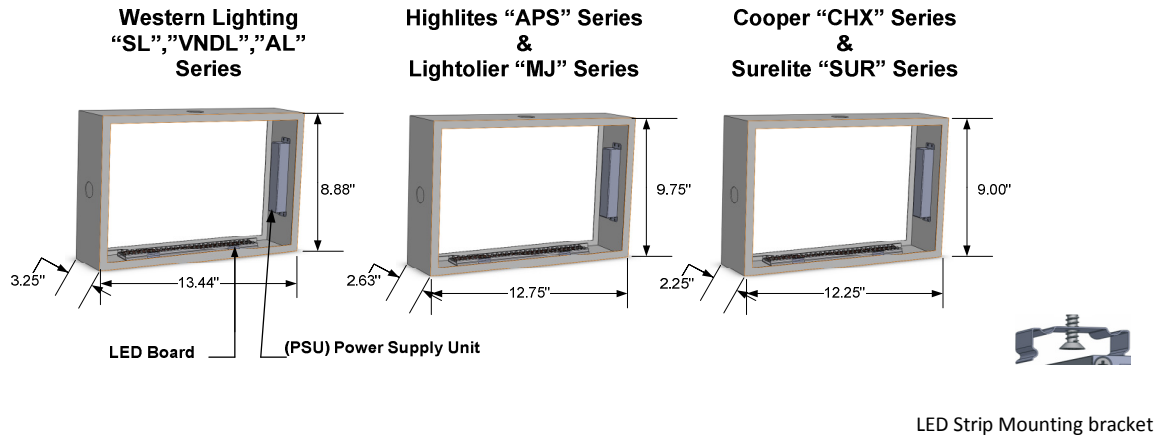
- One (1) LED Strip
- One (1) Power Supply/Driver One
- Two (2) Mounting Brackets for LED Strip
- Two each: Screws, Washers, Nuts
- Three (3) Wire Connectors
- 2 push-in connectors

INSTALLATION INFORMATION:

1. Select a suitable mounting location in the exit sign fixture. For most exit signs, the fixture should be installed as shown in Figure A2 (external power supply for box type of signs). The LEDs should be pointed **towards** the word "EXIT." If you notice that the words on the sign are not lit up to full brightness and visible from at least 100 ft, remove the LED fixture and start over. Never mount the LED strip on the right/left side of the fixture. Be sure not to block any vents. The power supply may be mounted on the right/left side. (see options A and B in figure A2)

FIGURE A2:

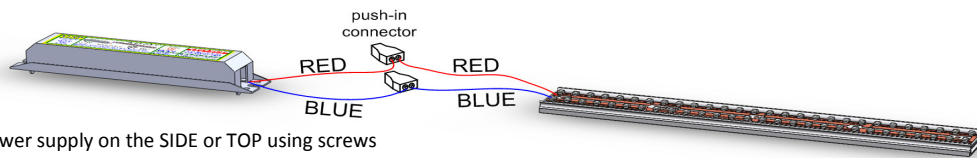
If retrofitting Sign Box type of exit sign, use the diagram below that corresponds to your exit sign's brand/model:



installation

2. To install the LED Strip, use the two mounting brackets, washers, nuts and two screws (provided). Pre-drill holes for mounting brackets and corresponding hardware in a suitable location. The LED strip must be centered in the mounting area of fixture. Place screw through center hole of bracket. Using a Philips screwdriver, install the mounting brackets to the suitable mounting location on the fixture (as described in step #1 and figure A2, above) using the screws, washers and nuts (provided). Screw in the mounting brackets first to the mounting location on the fixture (as described in step #1 above), then snap in fixture.

3. Use push-in connectors (provided) to connect PSU BLUE lead to LED Strip BLUE lead, then, connect PSU RED lead to LED Strip RED lead.



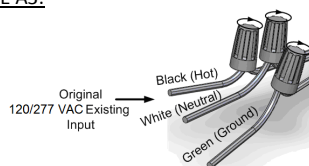
4. Mount the power supply on the SIDE or TOP using screws

5. To remove LED fixture after installation, use a small screwdriver to slightly pry one side of the metal mounting brackets open and then twist the fixture away from that side of the bracket.

6 . WIRING THE FIXTURE

- Turn the main breaker/fuse to the fixture off
- Refer to FIGURE A3 (below)
- Bring the power input leads (black/white/green or hot/neutral/ground) to the input leads of the light fixture as shown.
- Twist one lead of the stripped input lead to the Black (Hot) power input lead. Secure with wire connector (provided).
- Twist second lead of the stripped Input lead to the White (Neutral) power input lead. Secure with wire connector (provided).
- Twist green grounding wire attached to PSU to the Green (Ground) power input lead. Secure with wire connector (provided).
- After proper connections are made, in accordance with the National Electrical Code and local codes, turn on the main power

FIGURE A3:



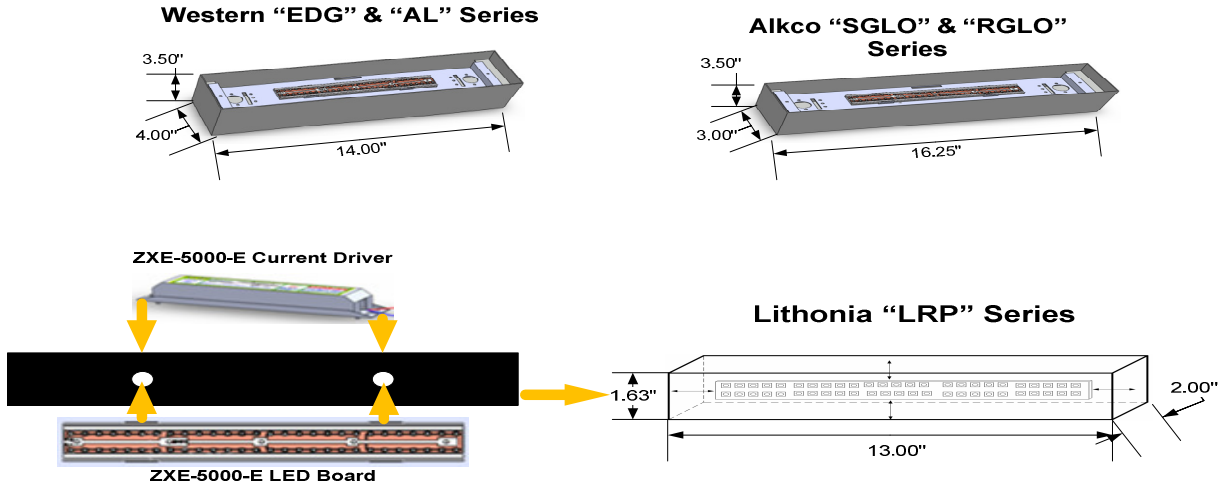
KIT CONTENTS & INSTALLATION INSTRUCTIONS for Part Number: ZXE-5000-E-UNV
for EXTERNAL POWER SUPPLY for use with EDGELIT type of sign

- One (1) LED Strip
- One (1) Power Supply/Driver One
- Two (2) Mounting Brackets for LED Strip
- Two each: Screws, Washers, Nuts
- Three (3) Wire Connector
- 2 push-in connectors

INSTALLATION INFORMATION:

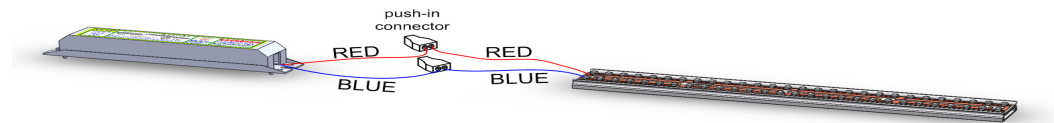
1. Select a suitable mounting location in the exit sign fixture. See FIGURE A1 (below) The LEDs should be pointed down **towards the word "EXIT."** If you notice that the words on the sign are not lit up to full brightness and visible from at least 100 ft, remove the LED fixture and start over. Be sure not to block any vents.

FIGURE A1 If retrofitting an Edge-lit type of exit sign, use the diagram below that corresponds to your exit sign brand/model: (Note: LED strip to be mounted in CENTER of mounting area)



2. To install the LED Strip, use the two mounting brackets, washers, nuts and two screws (provided). Pre-drill holes for mounting brackets and corresponding hardware in a suitable location. The LED strip must be centered in the mounting area of fixture. Place screw through center hole of bracket. Using a Philips screwdriver and install the mounting brackets to the suitable mounting location on the fixture (as described in step #1 and figure A1) using the screws, washers and nuts (provided). Screw in the mounting brackets first to the suitable mounting location on the fixture (as described in step #1 above), then snap in fixture. (See diagram below, left). * For Lithonia LRP Series: follow above instructions, but mount to the Formex provided instead of metal hardware. Slide in the plastic after mounting is complete.

3. Use push-in connectors (provided) to connect PSU BLUE lead to LED Strip BLUE lead, then, connect PSU RED lead to LED Strip RED lead.

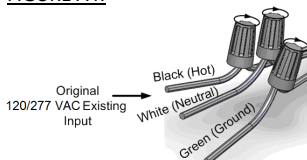


4. Mount power supply in suitable place inside EDGELIT exit sign fixture. Do not obstruct view of LEDs.
5. To remove LED fixture and power supply after installation, use a small screwdriver to slightly pry one side of the metal mounting brackets open and then twist the fixture away from that side of the bracket.

6. WIRING THE FIXTURE

- Turn the main breaker/fuse to the fixture off
- Refer to FIGURE A4 (below)
- Bring the power input leads (black/white/green or hot/neutral/ground) to the input leads of the light fixture as shown.
- Twist one lead of the stripped Input lead to the Black (Hot) power input lead. Secure with wire connector (provided).
- Twist second lead of the stripped Input lead to the White (Neutral) power input lead. Secure with wire connector (provided).
- Twist green grounding wire attached to LED fixture to the Green (Ground) power input lead. Secure with wire connector (provided).
- After proper connections are made, in accordance with the National Electrical Code and local codes, turn on the main power.

FIGURE A4:



KIT CONTENTS & INSTALLATION INSTRUCTIONS for Part Number: ZXE-5000-I-UNV

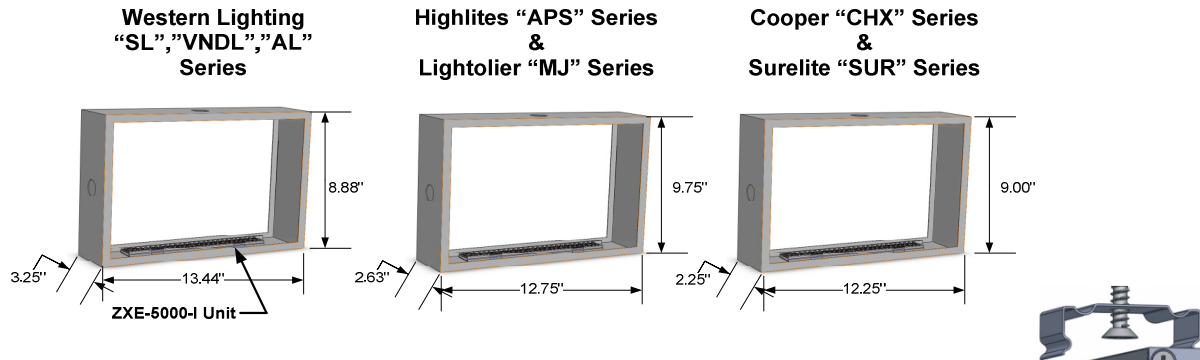
for type: INTERNAL POWER SUPPLY for use with BOX TYPE of exit signs

- One (1) LED Strip with power supply mounted inside the aluminum extrusion. (note: power supply not user serviceable and may not be replaced)
- Two (2) Mounting Brackets for ZXE-5000-I-UNV LED Strip
- Two (2) each: Screws, Washers, Nuts
- Three (3) Wire Connectors

INSTALLATION INFORMATION:

1. Select a suitable mounting location in the exit sign fixture. For most exit signs, the fixture should be installed as shown in FIGURE C2 (for box type of signs). The LEDs should be pointed up/down towards the word "EXIT". If you notice that the words on the sign are not lit up to full brightness and visible from at least 100 ft, remove the LED fixture and start over. Never mount the LED strip on the right/left side of the fixture. Be sure not to block any vents.

FIGURE C2: If retrofitting Sign BOX type of exit sign, use the diagram below that corresponds to your exit sign brand/model



Mounting bracket installation:

2. To install the LED Strip, use the two mounting brackets, washers, nuts and two screws (provided). Pre-drill holes for mounting brackets and corresponding hardware in a suitable location. The LED strip must be centered in the mounting area of fixture. Place screw through center hole of bracket. Using a Philips screwdriver and install the mounting brackets to the suitable mounting location on the fixture (as described in step #1 and figure C2 above) using the screws, washers and nuts (provided). Screw in the mounting brackets first to the mounting location on the fixture (as described in step #1 above), then snap in fixture.

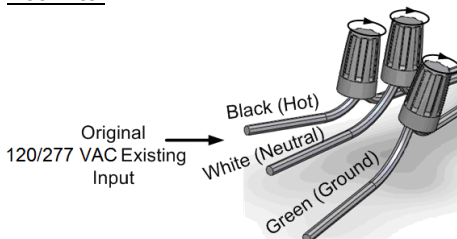
3. Snap in the wire (provided) by inserting the end with plastic clip into the fixture in the holes marked "in."

4. To remove LED fixture after installation, use a small screwdriver to slightly pry one side of the metal mounting brackets open and then twist the fixture away from that side of the bracket.

5. WIRING THE FIXTURE

- Turn the main breaker/fuse to the fixture off
- Refer to FIGURE C3 (below)
- Bring the power input leads (black/white/green or hot/neutral/ground) to the input leads of the light fixture as shown.
- Twist one lead of the stripped Input lead to the Black (Hot) power input lead. Secure with wire connector (provided).
- Twist second lead of the stripped Input lead to the White (Neutral) power input lead. Secure with wire connector (provided).
- Twist green grounding wire attached to LED fixture to the Green (Ground) power input lead. Secure with wire connector (provided).
- After proper connections are made, in accordance with the National Electrical Code and local codes, turn on the main power

FIGURE C3:



KIT CONTENTS & INSTALLATION INSTRUCTIONS for Part Number: ZXE-5000-I-UNV

for type: INTERNAL POWER SUPPLY for use with EDGELIT type exit signs

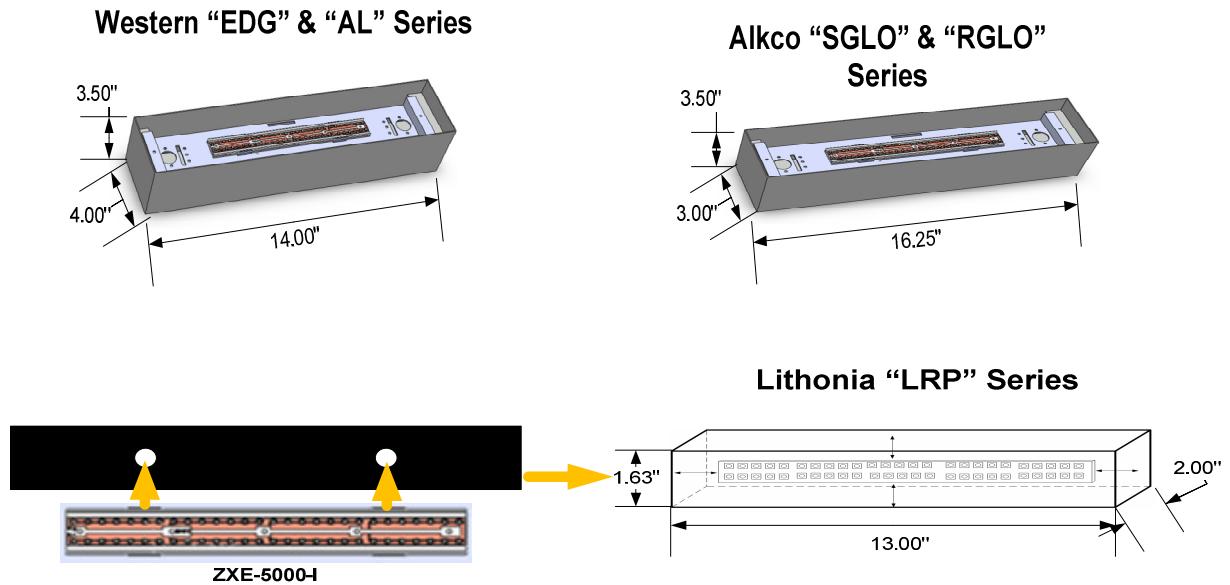
- One (1) LED Strip with power supply mounted inside the aluminum extrusion. (note: power supply not user serviceable and may not be replaced)
- Two (2) Mounting Brackets for ZXE-5000-I-UNV LED Strip
- Two (2) each: Screws, Washers, Nuts
- Three (3) Wire Connectors

INSTALLATION INFORMATION:

1. Select a suitable mounting location in the exit sign fixture. See FIGURE D1 (below) The LEDs should be pointed down **towards** the word "EXIT." If you notice that the words on the sign are not lit up to full brightness and visible from at least 100 ft, remove the LED fixture and start over. Never mount the LED strip on the right/left side of the fixture. The power supply may be mounted on the right/left side along the long portion of the sign box. Be sure not to block any vents.

FIGURE D1:

If retrofitting an Edge-lit type of exit sign, use the diagram below that corresponds to your exit sign brand/model: (note LED strip is mounted in CENTER of mounting area)



2. To install the ZXE-5000-I, use the two mounting brackets, washers, nuts and two screws (provided). Pre-drill holes for mounting brackets and corresponding hardware in a suitable location. The LED strip must be centered in the mounting area of fixture. Place screw through center hole of bracket. Using a Philips screwdriver and install the mounting brackets to the suitable mounting location on the fixture (as described in step #1 and figure D1) using the screws, washers and nuts (provided). Screw in the mounting brackets first to the suitable mounting location on the fixture (as described in step #1 above), then snap in fixture. (See diagram below, left). * For Lithonia LRP Series: follow above instructions, but mount to the Formex provided instead of metal hardware. Slide in the plastic after mounting is complete.

3. Snap in the wire (provided) by inserting the end with plastic clip into the fixture in the holes marked "in."

4. To remove a fixture and power supply after installation, use a small screwdriver to slightly pry one side of the metal mounting brackets open and then twist the fixture away from that side of the bracket.

6. WIRING THE FIXTURE

- Turn the main breaker/fuse to the fixture off
- Refer to FIGURE D2 (next page, I-2)
- Bring the power input leads (black/white/green or hot/neutral/ground) to the input leads of the light fixture as shown.
- Twist one lead of the stripped Input Lead to the Black (Hot) power input lead. Secure with wire connector (provided).
- Twist second lead of the stripped Input lead to the White (Neutral) power input lead. Secure with wire connector (provided).
- Twist green grounding wire attached to LED fixture to the Green (Ground) power input lead. Secure with wire connector (provided).
- After proper connections are made, in accordance with the National Electrical Code and local codes, turn on the main power

FIGURE D2:

