EXL1 | LED EMERGENCY EXIT SIGN

INSTALLATION INSTRUCTIONS

MODELS: EXL120UNV**S2, EXL120UNV**S2SD

SAVE THESE INSTRUCTIONS

WARNING: FAILURE TO FOLLOW THESE INSTRUCTIONS AND WARNINGS MAY RESULT IN DEATH, SERIOUS INJURY OR SIGNIFICANT PROPERTY DAMAGE. For your protection, read and follow these warnings and instructions carefully before installing or maintaining this equipment. These instructions do not attempt to cover all installation and maintenance situations. If you do not understand these instructions or additional information is required, contact your local distributor.

WARNING: RISK OF ELECTRIC SHOCK - NEVER CONNECT TO, DISCONNECT FROM, OR SERVICE WHILE EQUIPMENT IS ENERGIZED.

WARNING: RISK OF FIRE. Lamps are hot. Keep combustible material away from hot parts. Observe lamp manufacturer's warnings, recommendations and restrictions on lamp operation and maintenance. Make sure lamps are correctly installed.

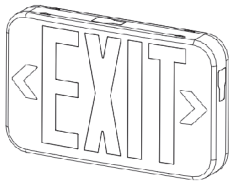
CAUTION: The battery in this unit may not be fully charged. After powering the unit, charge the battery for at least 24 hours, then normal operation of this unit should take effect. To check, press the TEST button. The lamps on the unit should turn on. (Refer to OPERATION BATTERY BACK UP for more testing information).

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

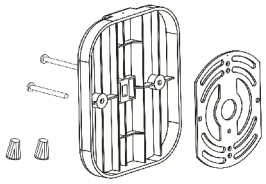
- Do not use outdoors. Suitable for use in 50°F to 104°F (10°C to 40°C) indoor damp locations.
- Consult local building code for approved wiring and installation.
- Disconnect AC power before servicing and installation.
- Do not mount near gas or electric heaters.
- Do not use this equipment for anything other than its intended use.
- The use of accessory equipment not recommended by the manufacturer will void product listing and warranty and may cause an unsafe condition.
- Any service on this equipment should be performed by qualified personnel only.
- Equipment should be mounted in locations and at heights where it will not be subject to tampering by unauthorized personnel.
- Use caution when servicing batteries.
- Cap unused wires with enclosed wire nuts or other approved method.
- Make sure wire terminations are secure and leads are properly tucked in appropriate wire channels.

SAVE THESE INSTRUCTIONS

What's In The Box



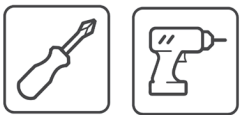
One (1) EXL1-SD

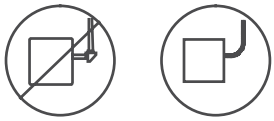


One (1) Mounting Kit

Tools Needed

A Phillips screwdriver will be needed to install the EXL1.
A drill is needed to remove the knockouts if back mounting.





Flexible Conduit Only

Installing the EXL1-SD

Make sure all power is turned off before beginning installation

1 Preparation

- Carefully unpack the exit sign from its packaging.
- Inspect product for defects due to shipping.
- Use screwdriver to carefully remove the front faceplate (See Figure 1).

Figure 1 - *Faceplate Removal*

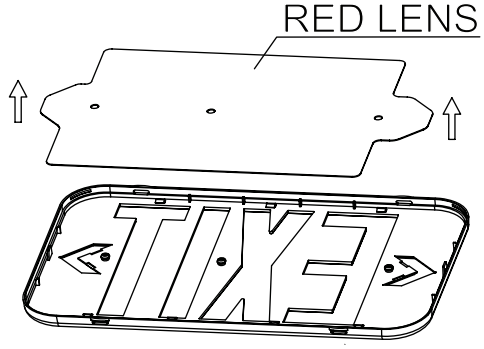


Fig.A

Remove or re-insert the red lens from/to faceplate

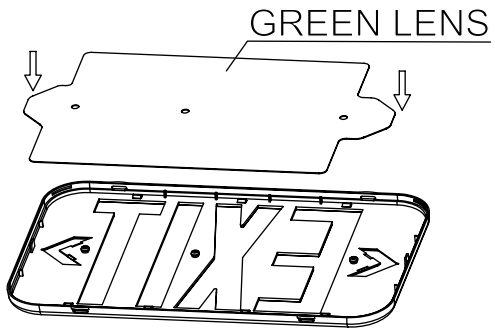


Fig.B

Secure the green lens to face plate

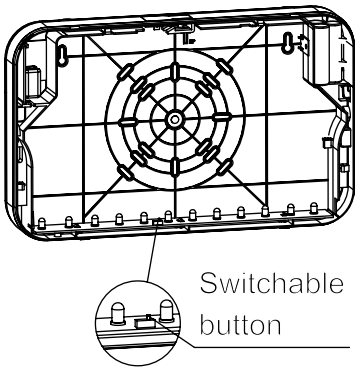


Fig.C

Toggle the switchable button to choose red or green illumination

NOTE: EXIT ships standard RED. Refer to Toggle Switch section for GREEN LED configuration.

2 WALL MOUNT INSTALLATION

- Remove EXIT stencil faceplate from housing. Remove RED lens from faceplate (see Fig. A). Set aside.
- Drill or knock out appropriate knockouts on back plate to fit junction box mounting points.(See Figure 2)
- Drill or knock out center hole in back plate for EXIT supply wire leads.
- Route EXIT input wires though center hole of the back plate and make wiring connection.
- Secure back plate to junction box (hardware not included).
- Toggle the switchable to select GREEN, if applicable (see Fig. C).
- Connect battery(See Figure 3).
- Remove knockout chevron(s) on faceplate, as needed. Re-insert RED lens to faceplate (see Fig. A) (or GREEN if applicable, see Fig. B). Secure EXIT stencil faceplate back onto housing.
- Apply continuous AC power, LED indicator will be Green.
- Press "TEST" button to check operation. (See **OPERATION BATTERY BACK UP** for testing procedures).

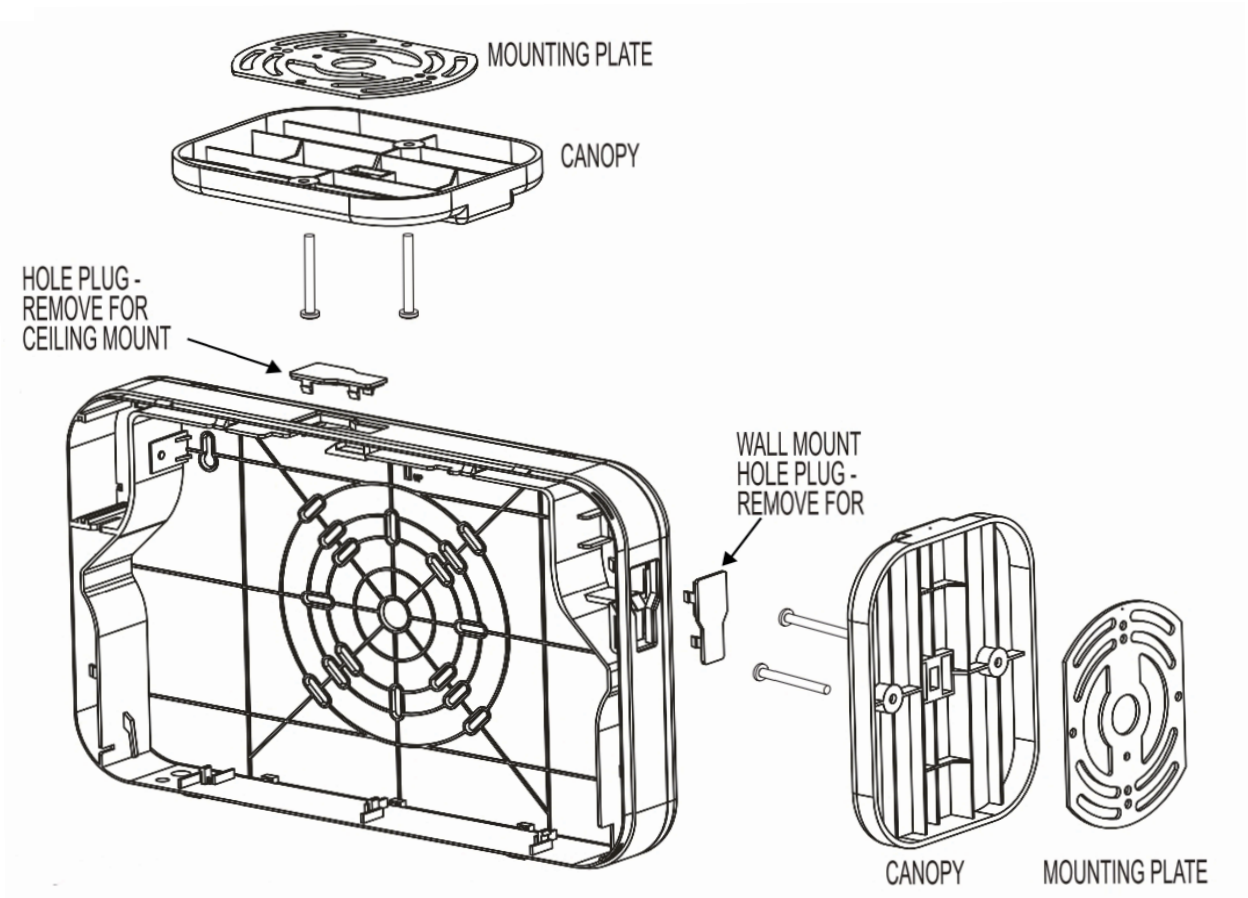


Figure 2 - *Wall Mount & Ceiling Mount*

3 CEILING OR END MOUNT INSTALLATION

- Remove EXIT stencil faceplate from housing. Remove RED lens from faceplate (see Fig. A). Set aside.
- Place screws (provided) in holes on the canopy(See Figure 2).
- Remove the desired mounting hole plug located on the frame of the sign. For ceiling mount, hole plug will be located on the top of the housing. For end mount, hole plug will be located on the side of the housing.

- Place canopy tab through the mounting hole of the housing until the flat portion of the canopy is touching the housing frame. Lock the canopy into place by sliding the canopy, without turning, toward smaller end of the mounting hole until the tab is fully engaged and locked into place. Once canopy is in the locked position there will not be any side-to-side movement of the canopy.
- Route EXIT input wires through canopy and through metal mounting plate.
- Make wiring connection.
  WARNING: Properly insulate the unused lead with a wire nut(provided) or other approved means.
- Push wire connections into the J-Box. Secure mounting plate to junction box (hardware not included).
- Secure the canopy to the steel mounting plate with screws installed in step 2.
- Toggle the switchable to select GREEN, if applicable (see Fig. C).
- Remove knockout chevron(s) on faceplate, as needed. Re-insert RED lens to faceplate (see Fig. A)(or GREEN if applicable, see Fig. B). Secure EXIT stencil faceplate back onto housing.
- Connect battery(See Figure 3).
- Apply continuous AC power, LED indicator will be Green.
- Press "TEST" button to check operation.(See **OPERATION BATTERY BACK UP** for testing procedures).

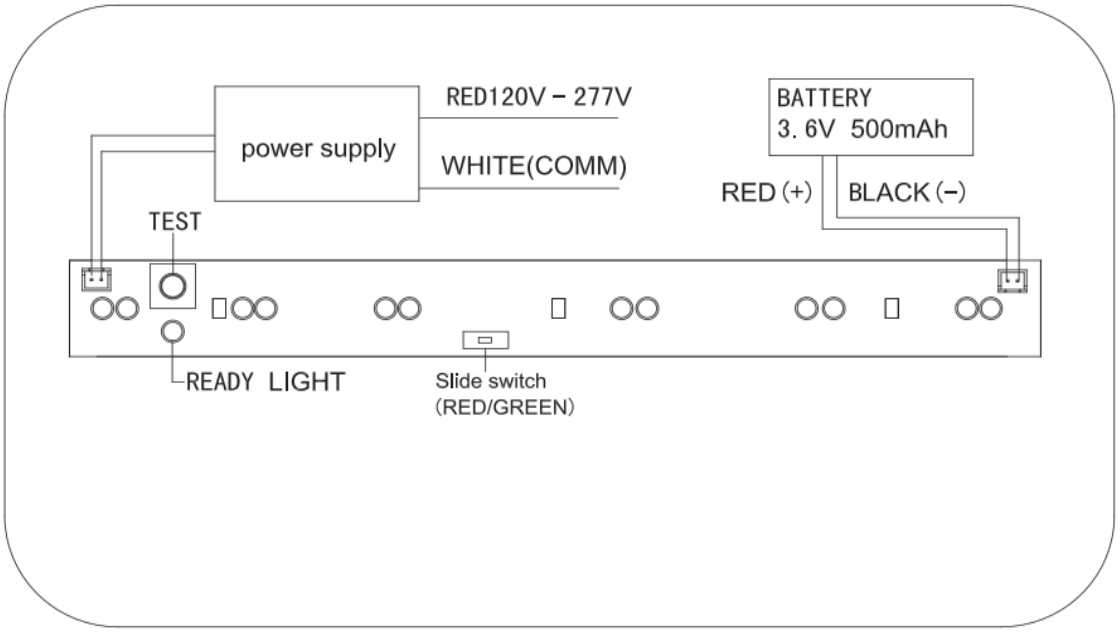


Figure 3 - *Wiring Diagram*

4 OPERATION (BATTERY BACKUP)

- Supply AC power to the unit. The LED indicator should turn on.
- After battery has been left to charge for 24 hours, test the unit by pressing the test switch once located at the bottom of the main body. At this point, the LED board will stay on, and the green LED indicator will blink for 30 seconds (monthly test).
  For more status details, please refer to the Self-Diagnostics Operation Guide.

5 MONITORING

- In normal operation conditions, the LED indicator should stay on in GREEN.
- Indicator goes out if AC supply or charger fails.

6 SELF-DIAGNOSTICS Operating Status

- To begin the Self-Diagnostic function, when AC power is on, press and hold the test button for 5 seconds, the green indicator will flash, then release to reset the program timer.
- When AC power is on, the green indicator will stay on during the battery charging process and when fully charged.
- If there is an AC power outage, the program timer pauses. Upon the next AC power connection, charging resumes for 24 hours before accumulating timing again, to ensure that the battery is fully charged during the Self-Diagnostic process.
- If both the annual and monthly inspections occur at the same time, only the annual inspection will be performed, and the monthly inspection will be skipped.
- When AC power is off, in emergency mode, press and hold the test switch for 2-3 seconds to stop the emergency operation, and the light will turn off.

For manual test, press test button as follows:

Initiating Action	Green Indicator display	Description
For Monthly test Press the test button once	Repeating 0.5s on - 0.5s off for 30 seconds	Returning to a steady green light after 30 seconds
For Annually test Press the test switch twice consecutively (within 30 seconds)	Repeating 0.5s on - 0.5s off for 90 minutes	Returning to a steady green light after 90 minutes
Press and hold the test button more than 2 seconds	Returning to a steady red light	Cancels remainder of test

For Self-Diagnostic, under normal operating conditions:

When the main power is on	Green Indicator display	Description
For Monthly test Charging after 30 days (±2days)	Repeating 0.5s on - 0.5s off for 30 seconds	Returning to a steady green light after 30 seconds
For Annually test Charging after 360 days (±5days)	Repeating 0.5s on - 0.5s off for 90 minutes	Returning to a steady green light after 90 minutes

*Remark: In the event of a fault, the AC power will be automatically disconnected, and the product will swich to emergency mode.
**In the event the Self - Diagnosetic Controller detects a malfunction.

Alert Codes	Red Indicator display	Description
	Remain constantly ON	Battery disconnected when the main power is on
	Repeating 0.2s on - 1s off	Battery is not charging when the main power is on
	Repeating 0.2s on / 0.3s off - 0.2s on / 1s off	ALTS fault during annual/monthly testing (battery capacity insufficient)
	Repeating 0.2s on / 0.3s off - 0.2s on / 0.3s off - 0.2s on / 1s off	Emergency lamp fault (**including remote head's lamp fault, if the fixture has remote capability*)
	Repeating 0.2s on / 0.3s off - 0.2s on / 0.3s off - 0.2s on / 0.3s off - 0.2s on / 1s off	LED board for Exit fault (for Exit Signs only)

*The factory default setting comes with a dummy load resistor installed on the terminal that connects to the remote head's lamp, which is used to prevent a fault from being triggered when the remote head's lamp is not installed during testing. If a remote head's lamp needs to be installed, simply remove the dummy load resistor and connect the compatible remote head's lamp.

** Fault indication priority:
Red light constantly ON > Red light flashes once > Red light flashes twice > Red light flashes three times > Red light flashes four times.

GENERAL PRODUCT WARRANTY. Each NICOR product will be free from defect in materials and workmanship for a period of one (1) year from the date of delivery to the end-user. Powder Coat paint finish on products, other than natural aluminum or brass, will not exhibit cracking, peeling, excessive fading, or corrosion during the warranty period. Exceptions apply as defined in each NICOR product's specification sheets, which are incorporated by reference herein. Warranty does not cover improper installation, operation, alterations, power surges, overheating due to external conditions, or acts of nature including but not limited to lightning strikes.

ALL NICOR WARRANTIES APPLY ONLY TO NICOR PRODUCTS THAT HAVE BEEN PURCHASED FROM AN AUTHORIZED NICOR DISTRIBUTOR; WHO PURCHASED THE PRODUCT DIRECTLY FROM NICOR; THE PRODUCT WAS NEW AND IN AN UNOPENED NICOR PACKAGE AT THE TIME OF INSTALLATION; AND WAS INSTALLED BY A LICENSED ELECTRICIAN OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help