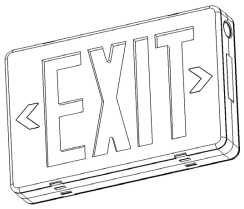
BCB4WFL1 & BXBWFL1

Installation Instructions

FirstLink Emergency Exit and Combo

bodine



FIRSTLINK

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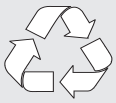
! IMPORTANT SAFEGUARDS !

WHEN USING ELECTRICAL EQUIPMENT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED, INCLUDING THE FOLLOWING:

READ AND FOLLOW ALL SAFETY INSTRUCTIONS

1. Maximum mounting height is 10 feet. For installations greater than 10 feet, consult factory to ensure that adequate illumination will be available on the path of egress.
2. All servicing should be performed by qualified personnel only.
3. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
4. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
5. Do not let power supply cords touch hot surfaces.
6. Do not mount near gas or electric heaters.
7. CAUTION: To avoid electrical overload, total connected lamp load (factory and field installed) should not exceed output rating.
8. Do not use this equipment for other than intended use.
9. Make sure all connections are in accordance with the National Electrical Code and any local regulations. Turn off AC power to branch circuits to which units will be connected.
10. This product is for use in indoor or damp locations where the ambient temperature is 10°C to 40°C. Not suitable for outdoor, wet, or hazardous locations.
11. 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 that may cause undesired operation.
12. This product must be grounded.
13. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance 20cm between the radiator and your body.
14. This equipment complies with ISED RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment must be installed and operated with a minimum distance 20cm between the radiator and your body. Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20cm de distance entre la source de rayonnement et votre corps

SAVE THESE INSTRUCTIONS



Li - ion

THIS PRODUCT CONTAINS A RECHARGEABLE LITHIUM-ION BATTERY. THE BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY.

10/8/25

Collierville, TN USA 38017 • Tech Support 888-263-4638 • www.bodine.com

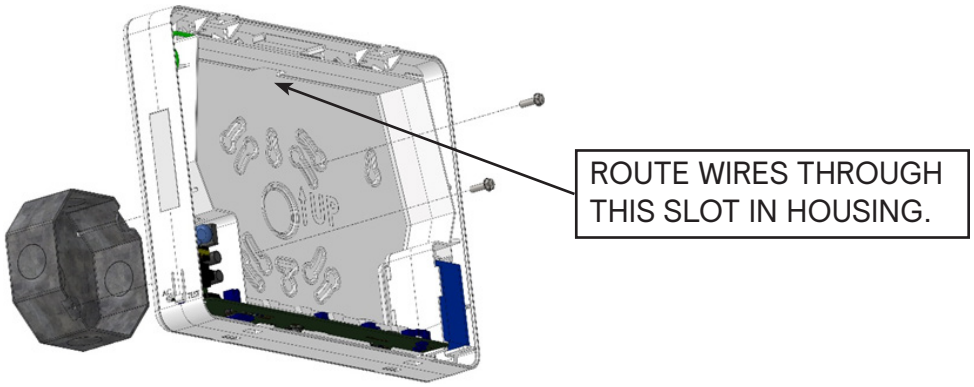
INSTALLATION

Caution: Turn off AC power to the location where these products will be installed. See wiring diagram for connections to AC power. Make sure all connections are in accordance with the National Electrical Code and any local regulations. Connect white wire to neutral. Connect black wire to 120VAC or 277VAC. Connect green wire to ground.

WALL MOUNT

1. Insert a flat blade screwdriver into the two snap features found on the top or bottom of the frame. Pry the exit stencil from the housing and set aside. Discard the canopy assembly found inside the housing.

2. Remove the center knockout in the backplate and any appropriate keyhole knockouts. Feed ac supply wires through the center hole in the backplate. Mount the exit sign to a single-gang or 3-1/2" or 4" octagonal junction box.



3. Connect white wire to neutral, black wire to 120VAC or 277VAC and green wire to ground. Press excess wire and wire nuts back into the junction box.

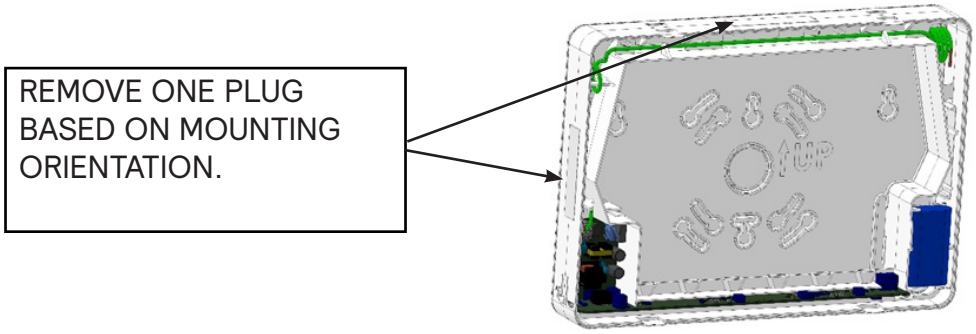
4. Snap the directional chevrons out of the exit stencil as desired. The stencil is shipped with the red lens installed. if a green exit stencil is desired, replace the red lens with the green one and move the red/green slider switch on the led board to "green". Snap the exit stencil back into place.

5. Apply AC power. Press the illuminated test switch. The exit sign should remain illuminated. Testing can also be performed from the Bodine FirstLink App.

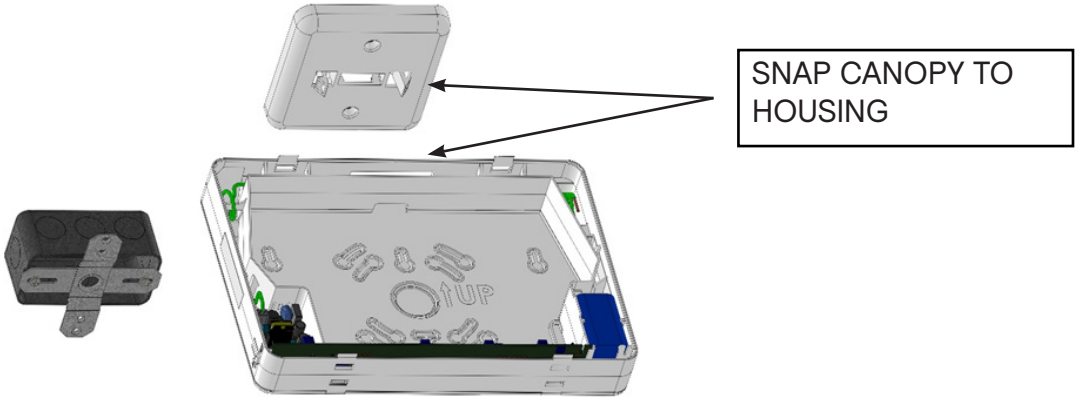
END OR CEILING MOUNT USING CANOPY KIT

1. Insert a flat blade screwdriver into the two snap features found on the bottom of the frame. Pry the exit stencil from the housing and set aside. If double faced mounting is desired, remove the backplate and replace it with the extra stencil assembly. The stencils are shipped with the red lens installed. If a green exit stencil is desired, replace the red lens with the green one and move the red/green slider switch on the led board to “green”. Set aside the canopy assembly found inside the housing.

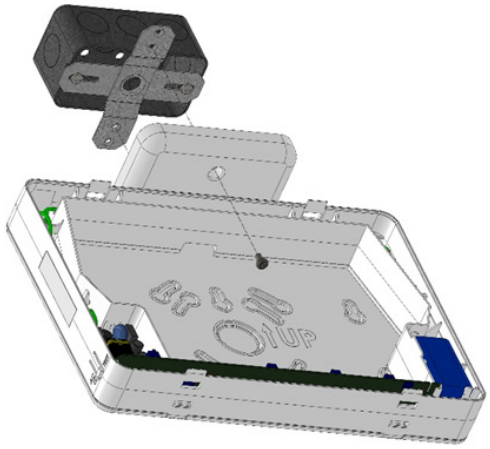
2. Remove the plug found in the right side or top of the exit frame, depending on intended mounting orientation.



3. Attach the cross-bar to a wall mounted single-gang or 3-1/2” junction box, supplied by others. The bent portions of the cross-bar should protrude into the room. Snap the canopy onto the housing. Pull the white, black and green wires through the canopy opening.



4. Connect white wire to neutral, black wire to 120VAC or 277VAC and green wire to ground. Press excess wire and wire nuts back into the junction box. screw the canopy to the cross-bar using the supplied screws.

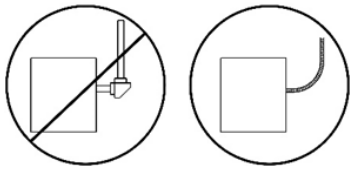


5. Snap the directional chevrons out of the exit stencil as desired. Snap the front exit stencil back onto the housing.

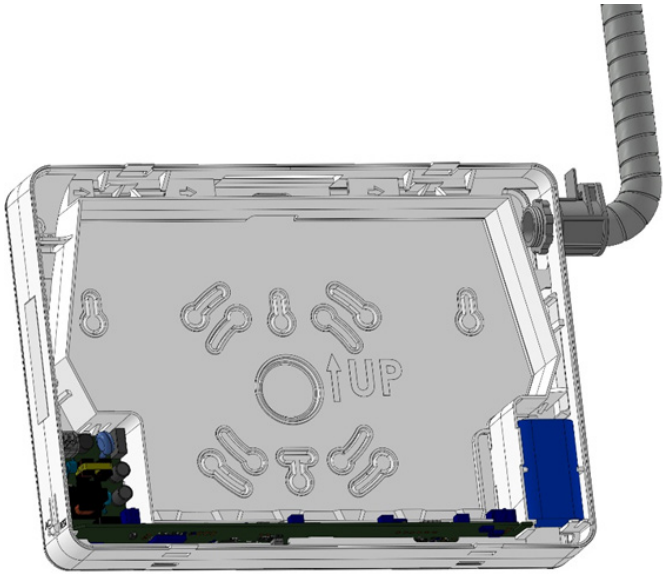
6. Apply ac power. press the illuminated test switch. The exit sign should remain illuminated. Testing can also be performed from The Bodine FirstLink App.

WALL MOUNT WITH FLEXIBLE CONDUIT

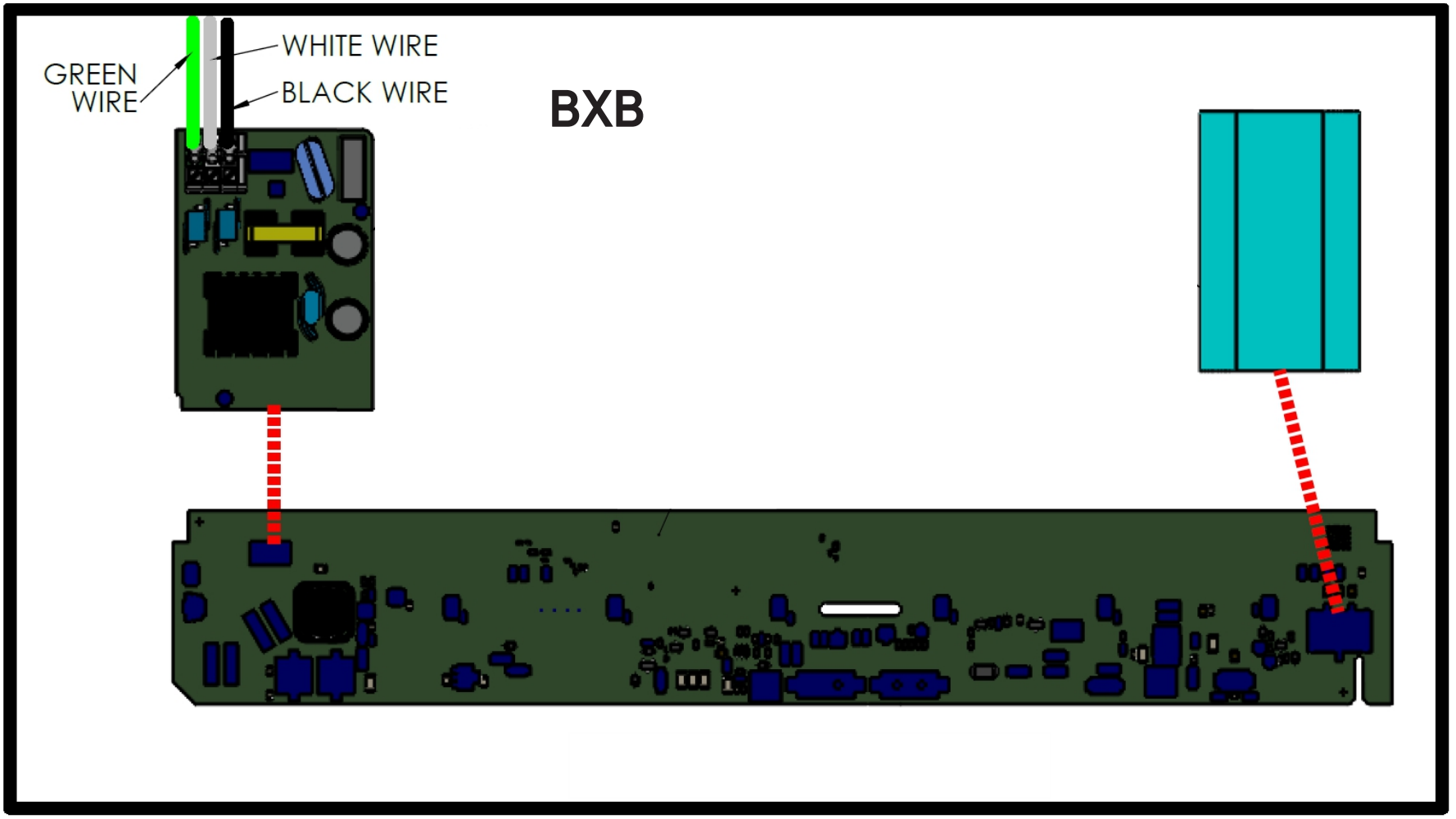
1. Follow the above instructions for wall mount installation with the exception of using the knockout found on the upper right side of the housing to mount a conduit fitting and flexible conduit to bring ac service into the product. Use only flexible conduit.



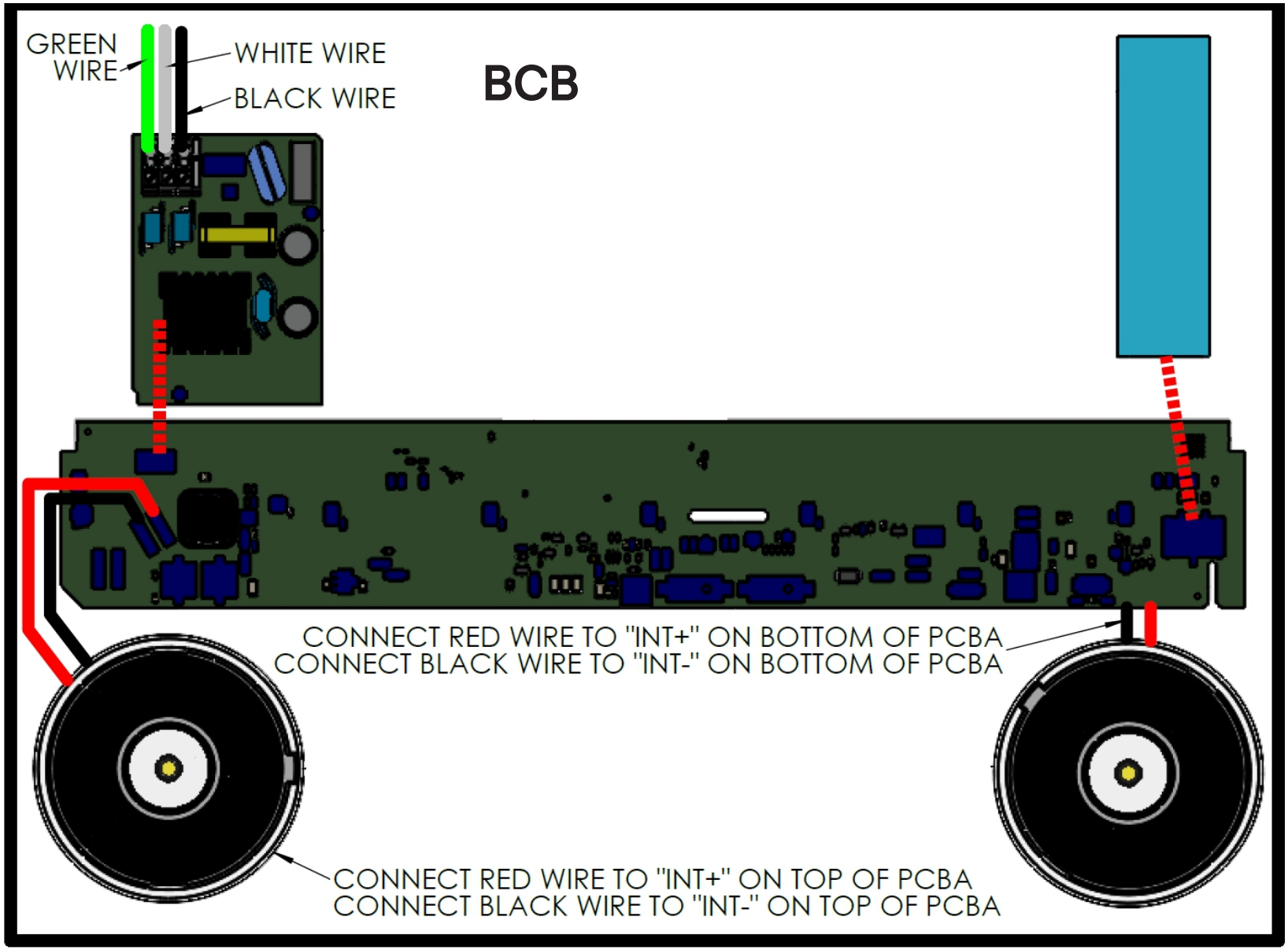
USE FLEXIBLE CONDUIT ONLY.



WIRING DIAGRAMS

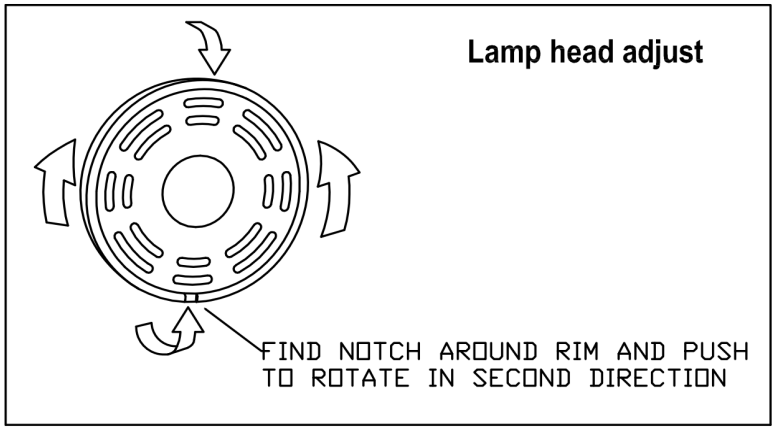


NOTE 1: For short-term testing of the emergency function, the battery must be charged for at least one hour. The emergency driver must be charged for at least 24 hours before conducting a long-term test.


GREEN WIRE
WHITE WIRE
BLACK WIRE
BCB
CONNECT RED WIRE TO "INT+" ON BOTTOM OF PCBA
CONNECT BLACK WIRE TO "INT-" ON BOTTOM OF PCBA
CONNECT RED WIRE TO "INT+" ON TOP OF PCBA
CONNECT BLACK WIRE TO "INT-" ON TOP OF PCBA

COMPLETE INSTALLATION

- Press wires and wire nuts back into the junction box.
- Snap EXIT stencil removed in Step 1 back onto the housing.
- After installation is complete, restore AC power.
- At this point, the Charging Indicator Light should illuminate indicating the internal battery is charging.
- After charging for one-hour, an automatic commission test will be performed. The emergency driver will switch to the emergency mode for 30 seconds. If, during future self-tests, the power requirement deviates by more than 50%, an error will be triggered indicating an error in the exit signs light sources.
- A short-term discharge test may be conducted after the emergency driver has been charged for one hour. Charge for 24 hours before conducting a long-term discharge test. Refer to OPERATION.
- Press the illuminated test button. The EXIT sign should remain illuminated. The Combo EXIT sign letters should remain illuminated and the lamp heads should illuminate.
- Adjust the lamp heads as required (see adjustment drawing below).
- See following pages for self-test/self-diagnostic system instructions.



OPERATION

When AC mains power is present, the EXIT sign is lit. The combo EXIT lamp heads will be off.
When AC power fails, the EXIT signs automatically switches to emergency mode, powering the LEDs illuminating the EXIT letters and the combo lamp heads per the rating of the product for a minimum of 90 minutes. When AC power is restored, the EXIT signs return to charging mode.

ABConnect:
Applying AC power to the unit activates the charger circuit, and supplies power to the control/monitor circuit and charging indicator light. This also activates the emergency operation circuit automatically.

To deactivate the unit for storage or shipping, press and hold the test button while the unit is in emergency mode until the Exit sign turns off.

MAINTENANCE

This self testing EXIT sign automatically performs required routine testing. Results are reported to maintenance personnel via the indicator light.
Note: Maintenance personnel can periodically check the indicator light although this is no longer necessary with FirstLink connectivity. If the indicator light is flashing, follow steps in the Troubleshooting Guide.

Self-Test:
This unit contains a control/monitor circuit that automatically performs a 30-second discharge test once a month and a full 90-minute discharge test once a year. During routine testing, the self-testing emergency driver simulates an AC power failure causing the unit to automatically switch to emergency mode. The unit will monitor the operation of the LED load, battery voltage, and emergency duration. If the emergency system functions properly, then the unit will return to normal mode. Should the unit detect any problems, the indicator light will flash per failure condition (see Troubleshooting Guide) until the condition has been corrected and the unit passes the next test.

To reset a failure indication, briefly push the Test Switch. If the condition has not been corrected by the next scheduled test, the unit will once again detect the failure and signal the failure indicator.

To perform a manual self-diagnostic test, push and hold the Test Switch for minimum of 5 seconds. Once test switch is released the emergency driver will perform a 30 second diagnostic test. During this test, unit will monitor the operation of the LED load, and battery voltage. If the emergency system functions properly, the unit will return to normal mode. Should the unit detect any problems, the indicator light will flash per failure condition (see Troubleshooting Guide) until the condition has been corrected and the unit passes the next test.

FIRSTLINK

This unit is able to be commissioned into a connected emergency system using the FirstLink phone /tablet app. This allows periodic self-tests to be scheduled at a convenient time for the installation site. Once scheduled, the functional tests (30 seconds every 30 days) and duration tests (90 minutes every year) will be conducted automatically and the results stored in the unit awaiting download from the app. Written reports in the form of Excel ".csv" files are available through the app as well. See Bodine FirstLink App Guide (FirstLink App Guide) for more information.

TROUBLESHOOTING GUIDE

If the unit has encountered a problem after installation, then the Illuminated Test Switch will flash the error code with the indicator light. Count the number of times the indicator is OFF to read the number of flashes. Then use the troubleshooting steps to solve the issue.

Bi-Color indicator (color/flashing)	ERROR	CORRECTIVE ACTION
Green/ No Flashes	None	The unit is operating correctly, and the internal battery is fully charged
Green/ Slow Flashes	None	1. The Unit is charging. The main light is operating normal. 2. The Unit is running a self-diagnostic test. The LED Load is operating in Emergency level.
OFF	None	In Emergency mode, or emergency run-time is ended and unit is de-activated.
Red-Green/fast	None	Device Identification command is in progress.
Red / 2x Flashes	Battery	Indicates that a self-test/self-diagnostic test did not meet full duration 1. Charge the unit for the rated recharge time and perform a manual self-diagnostic test. 2. If error is still present, then the battery is past it's useful life and should be replaced.
Red / 3x Flashes	Charging	1. Check input AC mains wiring of Unswitched Hot, Neutral and Ground. 2. Verify Voltage and Frequency are stable and match the product's input rating on the label
Red / 4x Flashes	LED Load, Commissioning	During a self-test/self-diagnostic test, Lamp heads /Lightbar LEDs have burned out, or on an EXIT/Combo, 50% or more of the LEDs have failed. 1. Check for Open or Short circuit on the output connections and correct the connections. 2. After correcting corrections recalibrate the commission value by deactivating the unit. Apply AC mains to activate unit and it will recommission itself after one hour. 3. If unit still exhibits 4x flashes contact customer care.
Red / 5x Flashes	Temperature	Product temperature is beyond its rated temperature range. 1. Ensure unit is within the rated temperature range stated on the product label. 2. Confirm by measuring at the Tc point on the product label.
Alternating Red/Green Flashes	None	The product has been placed into the Identification mode through the app.

WARNINGS

Any changes or modifications not expressly approved by Signify could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device."

"L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage ;

2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement."