Series Simplicity Edge-Lit LED Exit Sign
AC, AC/DC and Self-Powered models

WARNING:
Risk of Shock.
Disconnect Power before Installation.

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. Do not use outdoors.
3. Do not let power supply cords touch hot surfaces.
4. Do not mount near gas or electric heaters.
5. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
6. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
7. Do not use this equipment for other than its intended use.

SAVE THESE INSTRUCTIONS

IMPORTANT: This sign shall be installed only where there is adequate colour contrast between the sign legend and the interior wall finish behind the sign, to provide for sufficient visibility.

Installation Instructions

Turn off AC power.

IMPORTANT: Wiring connections need to be done away from PCBA and in designated area as shown in figure 8 or 9.

Recessed mount installation (New construction or rear access) (Figure 2a & b)

1. Remove the proper knockout in the back box for the entry of the AC wires.
2. Assemble the recessed mounting brackets to the back box. Install the bar hangers in the adjustment brackets. Mount the back box.

IMPORTANT: The back box must be flush with the wall or ceiling surface (see figure 2b). Contact customer service in the event where it's not possible to have the back box flush with the wall or ceiling.

3. Route AC circuit of rated voltage into the back box and leave 6" of wire length.
4. Connect the incoming ground to the short ground wire provided in the back box.

Surface mount installation (Figures 3a,b,c)

1. Remove the proper knockout in the canopy plate to mount to the junction box, check the orientation of the back box (see figures 3a, b or c).
2. Route the wires through one of the Ø5/8" knockout holes in the canopy plate and mount the plate to the electrical box using the junction box screws. Make sure that the canopy plate will mount so the securement screw is accessible.
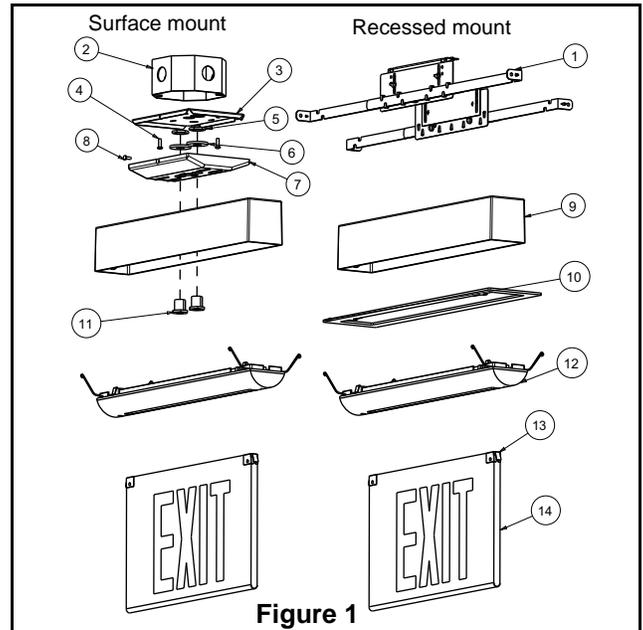

Figure 1

Parts List

1. Recessed mount brackets (recessed only)
2. Junction box
3. Canopy plate
4. Junction box screws (not provided)
5. Nuts (2)
6. Nylon washer (2)
7. Canopy
8. Securement screw
9. Back box
10. Trim ring (recessed only)
11. Nipples (2)
12. Trim plate assembly
13. Clips (2)
14. Exit panel
15. Hook (refer to fig.7)
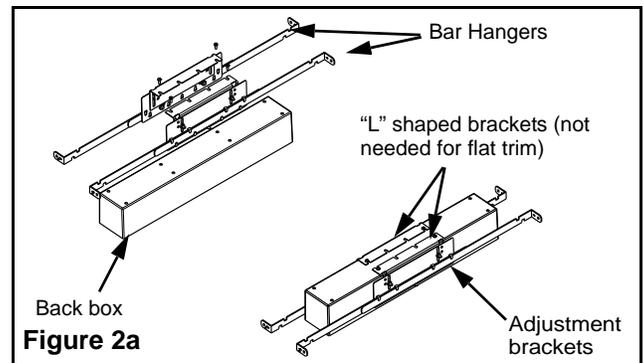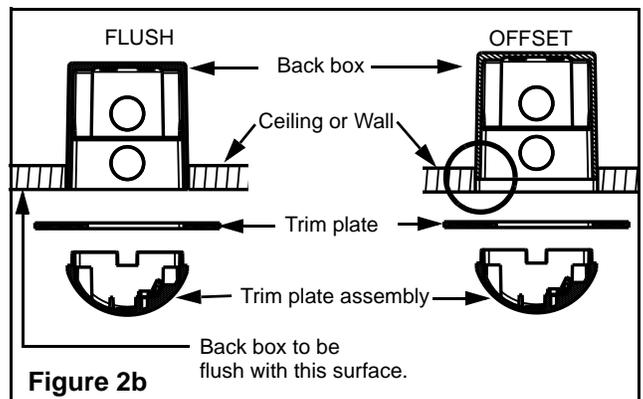
Figure 2a

Figure 2b

3. Remove the proper knockouts in the back box to mount the canopy (see figures 3a, b or c).
4. Mount the canopy to the back box using the hardware supplied (see figures 3a, b or c).
5. Route wires from the harness through the back box/canopy assembly.
6. Using the hook provided, hang the canopy/back box assembly to the canopy plate (figure 7).
7. Go to electrical connections for wiring information.
8. Mount the canopy/back box assembly to the canopy plate using the securement screw provided.
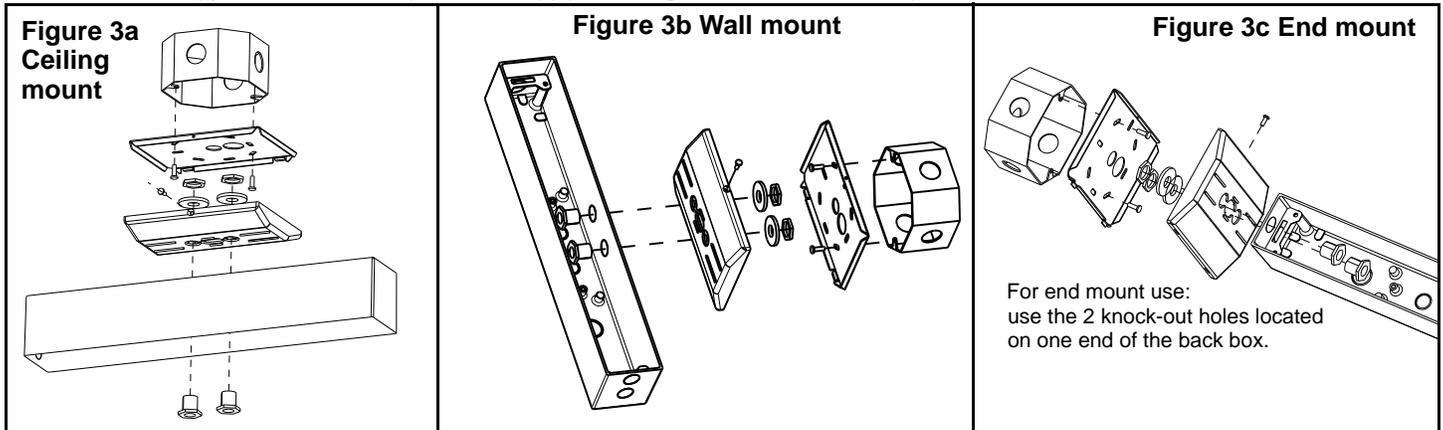
Figure 3a Ceiling mount

Figure 3b Wall mount

Figure 3c End mount

For end mount use:
use the 2 knock-out holes located
on one end of the back box.

Trim plate installation

1. The trim plate module comes assembled for surface mount or recessed ceiling mount installation (figure 4). If surface or recessed ceiling mount, continue with step 3.
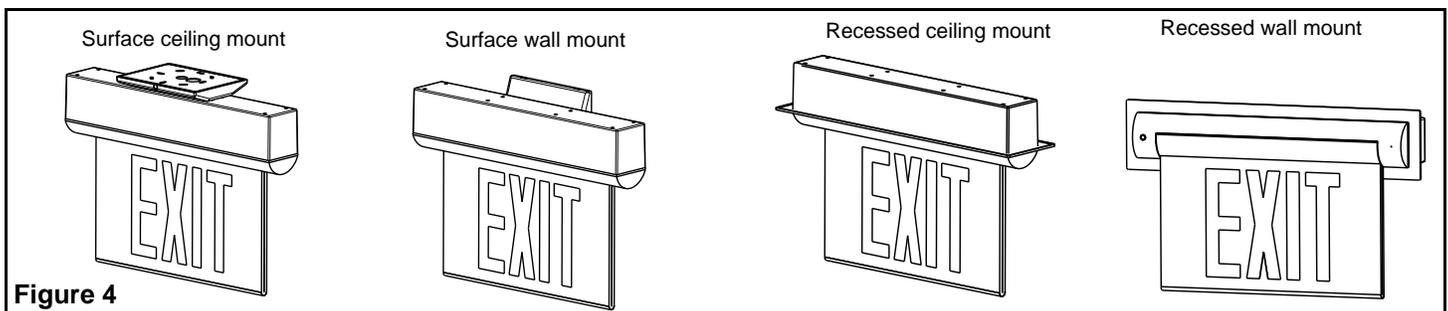
Surface ceiling mount

Surface wall mount

Recessed ceiling mount

Recessed wall mount

Figure 4

2. **Recessed wall-mount installation (Figures 5a,b,c)**
    a. To remove the electronic module, unscrew the bracket on either end of the module. Disconnect the transformer harness from the electronic module in the plastic housing. Remove the electronic module.
    b. Unscrew the side plate of the trim plate body. Turn the side plate around and screw it back in place, this time flush with the trim plate body.

Figure 5a

Lip up

Lip down
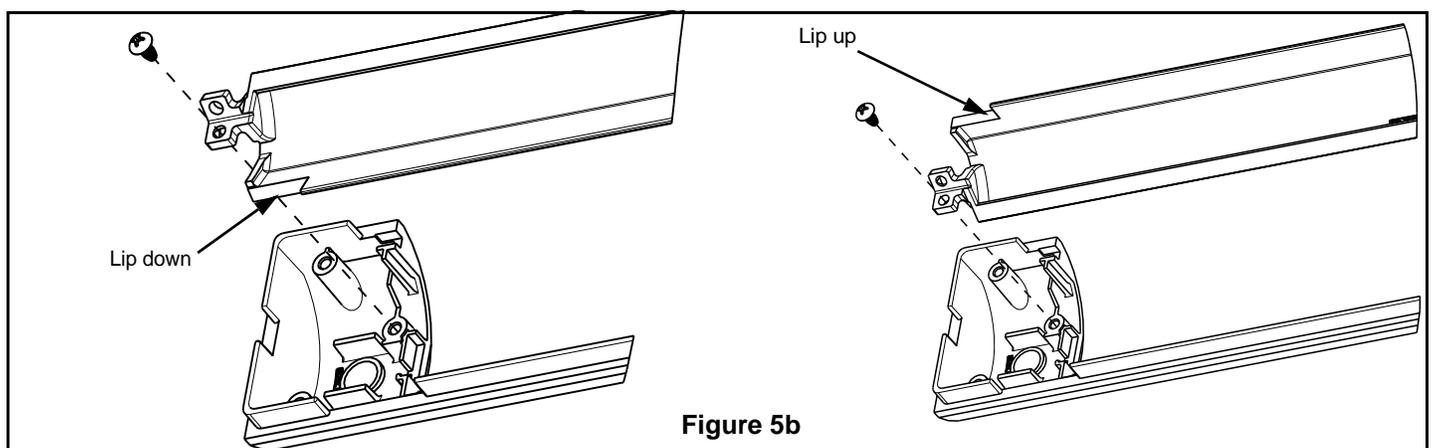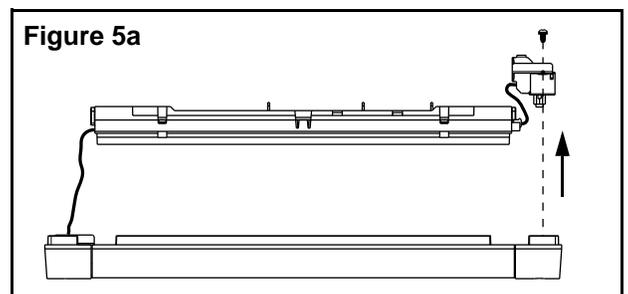
Figure 5b

c. Re-install the electronic module and the bracket, this time oriented as in (Figure 5c). Reconnect the transformer harness to the electronic module.

3. Recessed installation (figure 6). Attach the flat trim ring to the trim plate. Orient the trim ring and snap it with the two tabs behind the hooks of the side brackets.

4. **Electrical connection (Figures 8,9)**
   a. Connect the long ground lead with eyelet from the back box to the trim plate assembly with the hardware provided.
   b. Make the proper connections. The system can accept input voltages of 120 VAC to 347 VAC. For regular models connect the purple (line) and white (common) leads to the building utility (figure 8). For models with diagnostic feature connect the white (common) and black (120 VAC) or orange (277 VAC) leads to the building utility (figure 9).
   c. For remote power DC unites, connect the red wire to the positive of the DC supply and the blue to the negative (6 to 24 volts).

5. Take the trim plate assembly and connect the harnesses together with the back box mating colors.

6. Compress the retention springs and insert the trim plate assembly into the back box. Align the trim plate assembly flush with the back box, wall or ceiling installation.
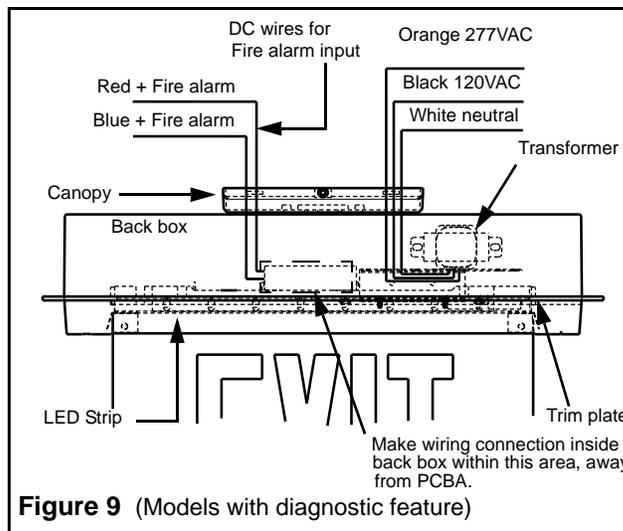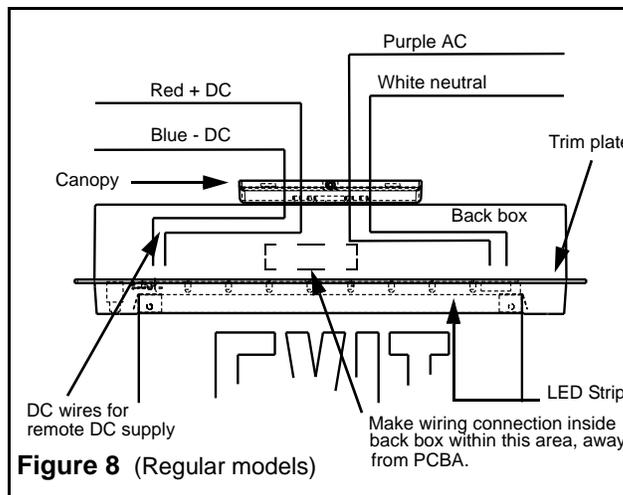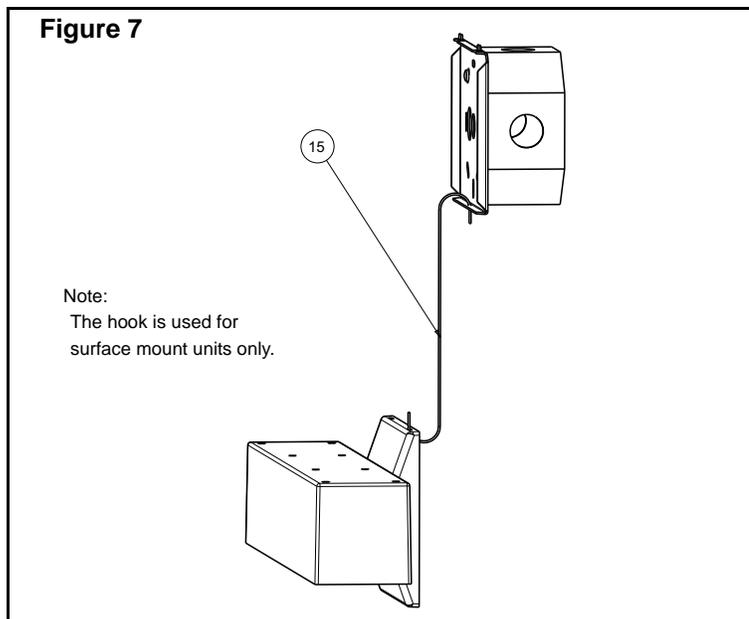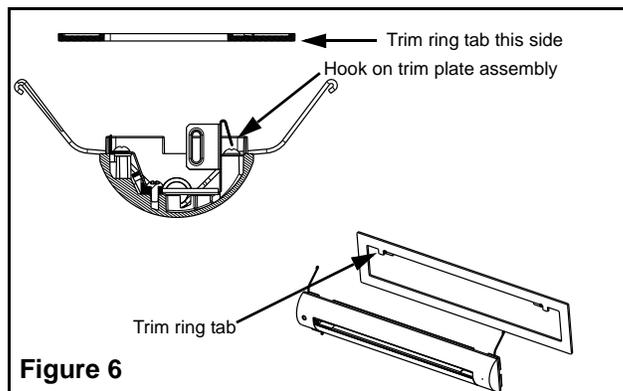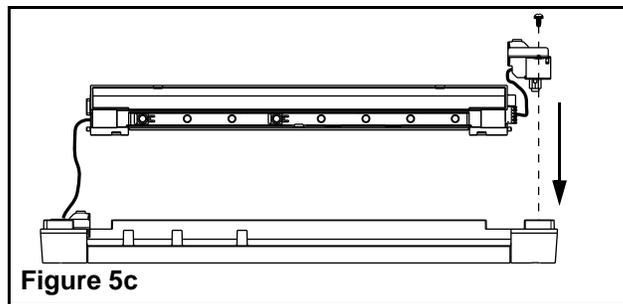
Figure 5c

Figure 6

Trim ring tab this side

Hook on trim plate assembly

Trim ring tab

Figure 7

15

Note:
The hook is used for surface mount units only.

Figure 8 (Regular models)

Purple AC

White neutral

Red + DC

Blue - DC

Trim plate

Canopy

Back box

DC wires for remote DC supply

LED Strip

Make wiring connection inside back box within this area, away from PCBA.

Figure 9 (Models with diagnostic feature)

DC wires for Fire alarm input

Orange 277VAC

Red + Fire alarm

Black 120VAC

Blue + Fire alarm

White neutral

Transformer

Canopy

Back box

LED Strip

Trim plate

Make wiring connection inside back box within this area, away from PCBA.

Exit panel installation (Figure 10)

1. Remove the exit panel from its carton, do not remove the protective sleeve until the installation is complete.
2. Partially remove the protective sleeve at the top of the exit panel. Push the exit panel, with the clips, into the slot in the trim plate assembly until it snaps. Gently try to pull out the panel to ensure that it is engaged in the trim plate assembly. Remove the protective sleeve.
3. For self powered models, connect the two terminals (located on the red wires) together.
4. Energize AC circuit. Exit and green pilot indicator (self-powered models) will illuminate.

> ⚠ **IMPORTANT:** The exit panel can only be removed by lowering the trim plate and pushing on the end clip located on the opposite side of the test switch with a screwdriver.

Figure 10

AC Pilot light / Test switch
Diagnostic light (optional)
Trim plate
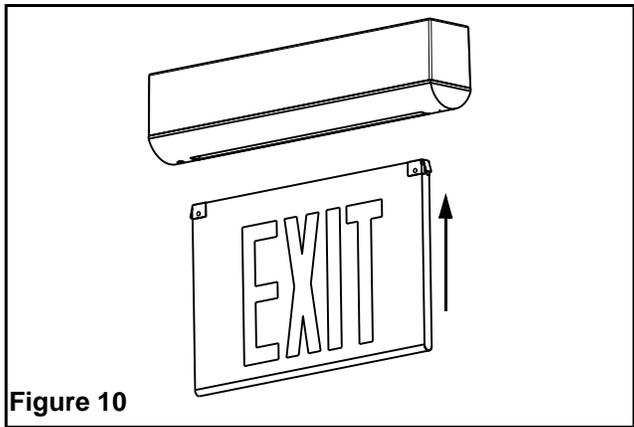
Figure 11

Self Powered models

Manual testing (Figure 11)

Press test switch. Legend will flicker then will remain lit. On release an external green LED will illuminate and the automatic charger will restore battery to full power.

Automatic testing and diagnostics (optional)

The models with the automatic testing and diagnostic option include a microcontroller which tests the unit on a monthly basis and identifies as well as displays failures of the electrical components: battery, charger circuit, LED lamps.

Self-test

The self-test is performed every 30 days for 30 seconds, every 60 days for 30 minutes, and annually for 90 minutes.

Diagnostic function (Figure 11)

The diagnostic function uses the pilot light LED indicator. Service is required if the green LED changes color to red indicating that an alarm condition is detected.

Pilot light	Status	Diagnostic
Green	Steady	Normal (AC On)
Green	Blinking	Auto Test
Red	Steady on	Battery Disconnect
Red	One Blink	Battery Failure
Red	Two Blinks	Charger Failure
Red	Four Blinks	LED Lamp Failure

Maintenance

None required. Models equipped with batteries: if AC supply is to be disconnected for 2 months or more, the battery must be disconnected (Self-Powered Models only).

Note — For safety reasons Nickel Cadmium batteries are shipped discharged. The unites may require 10 minutes of connection to AC supply before start-up test procedure, and two to seven days to reach full charge.

Warranty: For the complete warranty information, please refer to the landing page of our website (http://www.lightalarms.com).

Series Simplicity - Edge-Lit LED Less panel
AC, AC/DC and Self-Powered models

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3. Do not let power supply cords touch hot surfaces.
4. Do not mount near gas or electric heaters.
5. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
6. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
7. Do not use this equipment for other than intended use.

SAVE THESE INSTRUCTIONS

> **IMPORTANT:** This sign shall be installed only where there is adequate colour contrast between the sign legend and the interior wall finish behind the sign, to provide for sufficient visibility.

Installation Instructions

Turn off AC power.

> **IMPORTANT:** Wiring connections need to be done away from PCBA and in designated area as shown in figure 8 or 9.

Recessed mount installation (New construction or rear access) (Figure 2a & b)

1. Remove the proper knockout in the back box for the entry of the AC wires.
2. Assemble the recessed mounting brackets to the back box. Install the bar hangers in the adjustment brackets. Mount the back box.

> **IMPORTANT:** The back box must be flush with the wall or ceiling surface (see figure 2b). Contact customer service in the event where it's not possible to have the back box flush with the wall or ceiling.

3. Route AC circuit of rated voltage into the back box and leave 6" of wire length.
4. Connect the incoming ground to the short ground wire provided in the back box.

Surface mount installation (Figures 3a,b,c)

1. Remove the proper knockout in the canopy plate to mount to the junction box -check the orientation of the back box (see figures 3a, b or c).
2. Route the wires through one of the Ø5/8" knockout holes in the canopy plate and mount the plate to the electrical box using the junction box screws. Make sure that the canopy plate will mount so that the securement screw is accessible.
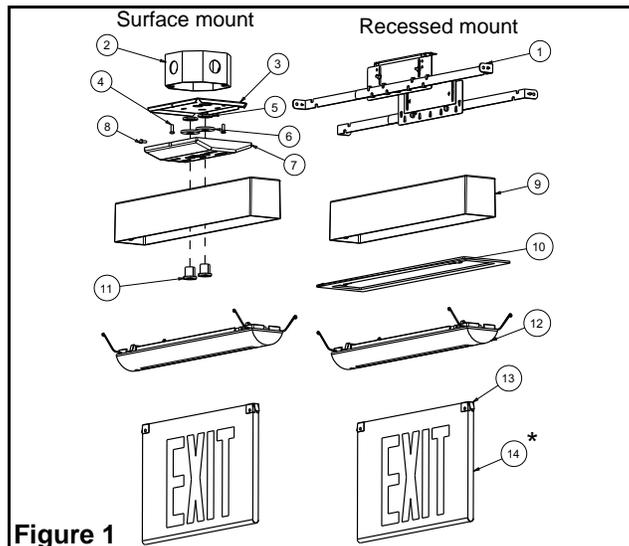
Figure 1

> Back box or EXIT Panel may not be provided.
> Refer to Back box /Panel assembly parts list
> (located on last page) for ordering.
> **CAUTION:** Only the listed assemblies can be installed with this unit.

Parts List

1. Recessed mount brackets (recessed only)
2. Junction box
3. Canopy plate
4. Junction box screws (not provided)
5. Nuts (2)
6. Nylon washer (2)
7. Canopy
8. Securement screw
9. Back box
10. Trim ring (recessed only)
11. Nipples (2)
12. Trim plate assembly
13. Clips (2) (Shipped with panel)
14. *Exit panel (Not included. Shipped separately. Refer to panel parts list).
15. Hook (refer to fig.7)
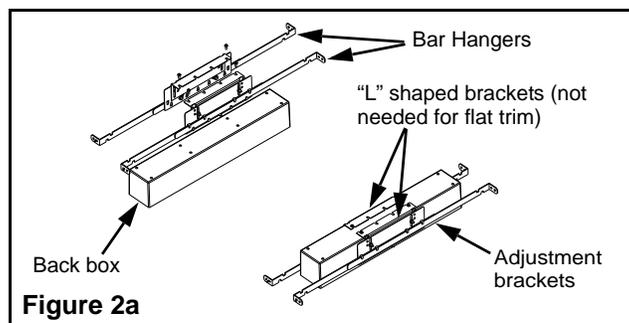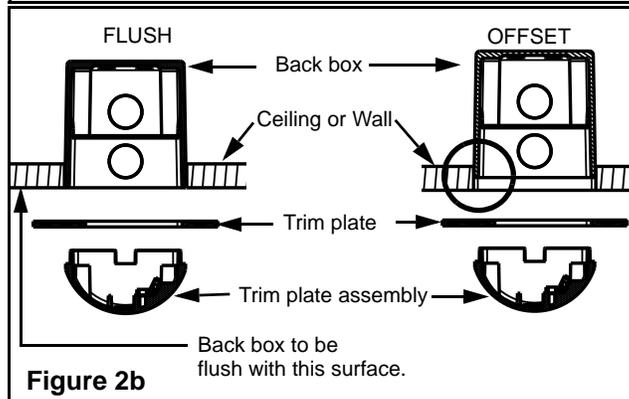
Figure 2a

Figure 2b

3. Remove the proper knockouts in the back box for mounting to the canopy (see figures 3a, b or c).
4. Mount the canopy to the back box using the hardware supplied (see figures 3a, b or c).
5. Route wires from the harness through the back box and canopy.
6. Using the hook provided, hang the canopy/back box assembly to the spider plate (figure 7).
7. Go to electrical connections for wiring information.
8. Mount the canopy/back box assembly to the spider plate using the two 1" screws provided.
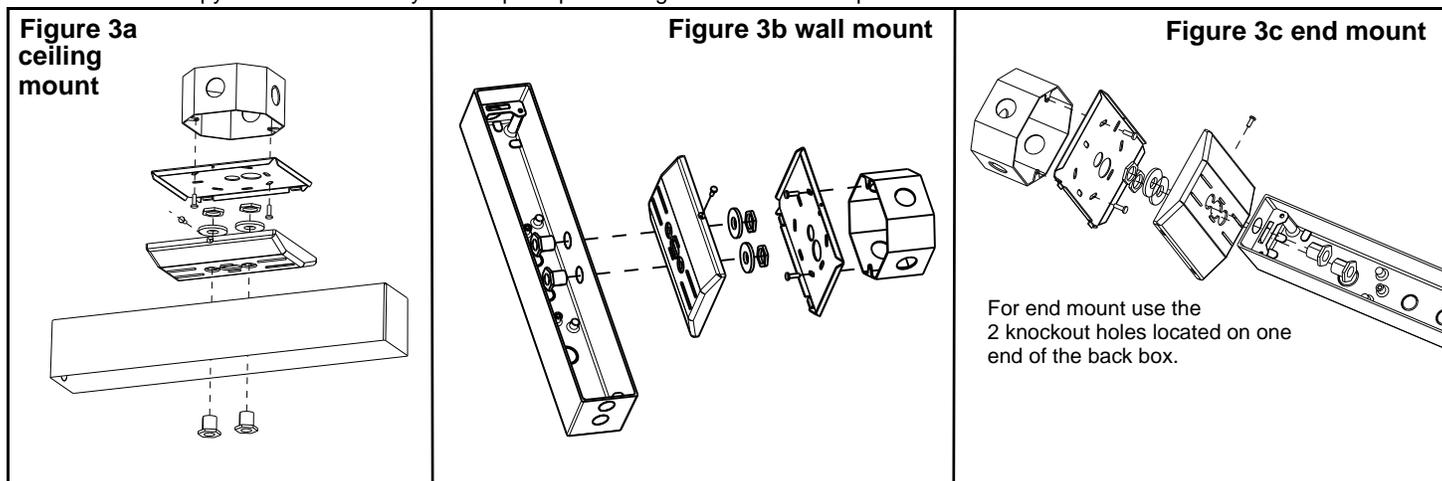
Figure 3a ceiling mount

Figure 3b wall mount

Figure 3c end mount

For end mount use the 2 knockout holes located on one end of the back box.

Trim plate installation

1. The trim plate module comes assembled for surface mount or recessed ceiling mount installation (Figure 4). For surface or recessed ceiling mount, go to step 3.
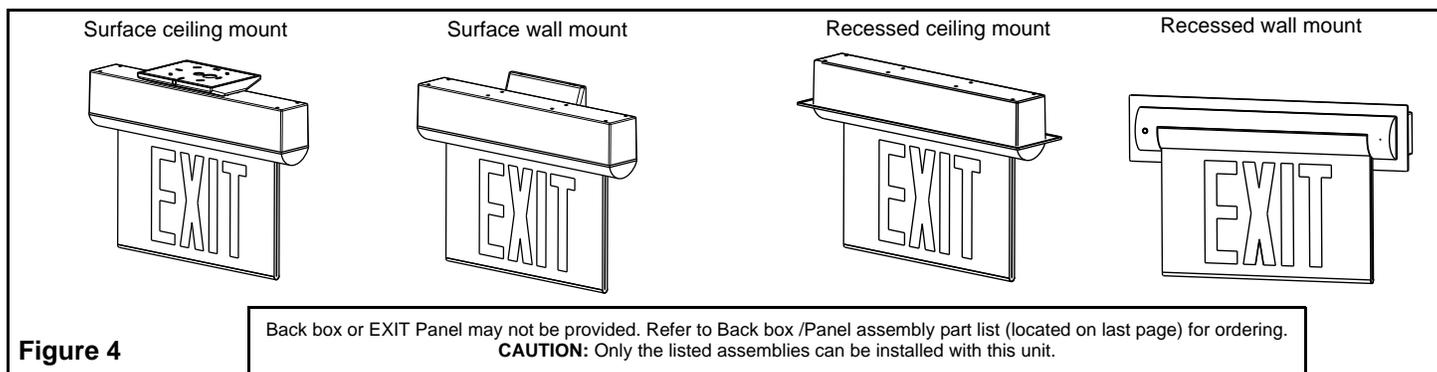
Surface ceiling mount

Surface wall mount

Recessed ceiling mount

Recessed wall mount

Figure 4

Back box or EXIT Panel may not be provided. Refer to Back box /Panel assembly part list (located on last page) for ordering.
CAUTION: Only the listed assemblies can be installed with this unit.

2. Recessed wall-mount installation (Figures 5a,b,c)

a. To remove the electronic module, unscrew a bracket on either end of the module. If the unit has a transformer: disconnect the transformer harness from the electronic module in the plastic housing. Remove the electronic module.

b. Unscrew the side plate of the trim plate body. Turn the side plate around and screw it back in place, this time flush with the trim plate body.

Figure 5a

Lip up

Lip down
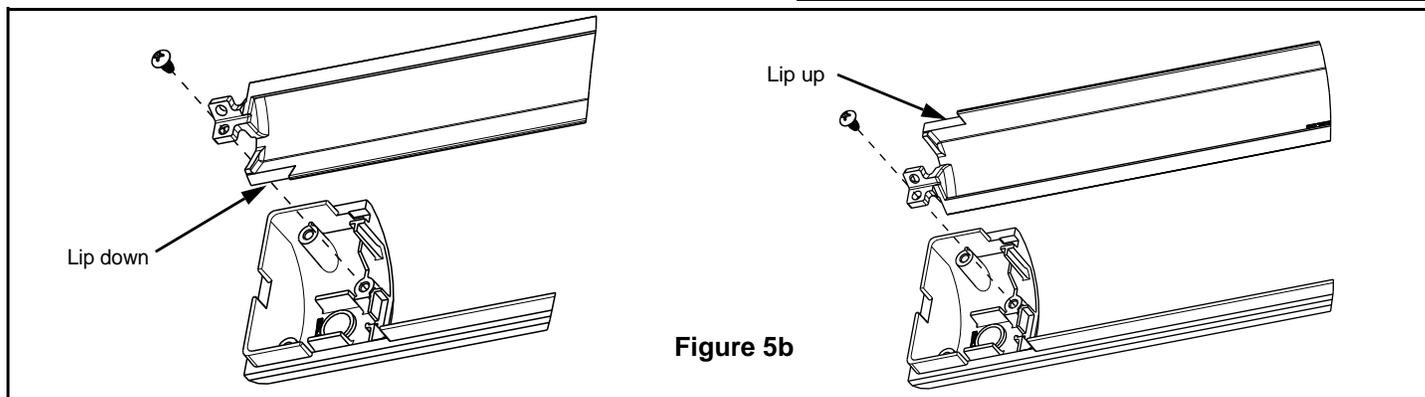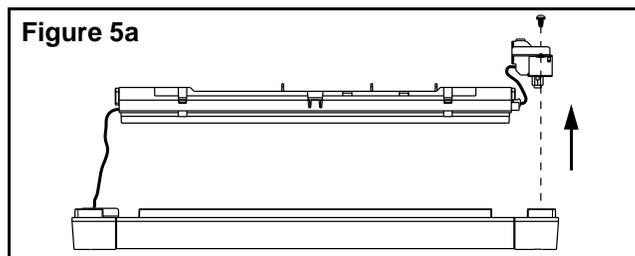
Figure 5b

c. Re-install the electronic module, this time oriented as in (Figure 5c). For units with transformer: reconnect the transformer harness to the electronic module.

3. Recessed installation (Figure 6). Attach the flat trim ring to the trim plate. Orient the trim ring and snap it with the two tabs behind the hooks of the side brackets.

4. **Electrical connection (Figures 8,9)**
   a. Make the proper connections. The system can accept input voltages of 120 VAC to 347 VAC. For regular models connect the purple (hot) and white (common) leads to the building utility (Figure 8). For models with diagnostic feature connect the white (common) and black (120 VAC) or orange (277 VAC) leads to the building utility (Figure 9).
   b. For remote power DC unites, connect the red wire to the positive of the DC supply and the blue to the negative (6 to 24 volts).

5. Take the trimplate assembly and connect the harnesses together with the back box mating connector.

6. Compress the retention springs and insert the trim plate assembly in the back box. Align the trim plate assembly flush with the back box, wall or ceiling as installed.
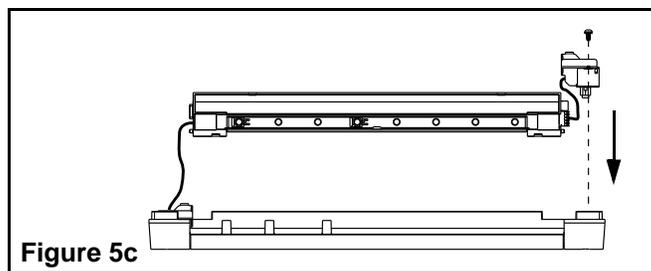
Figure 7
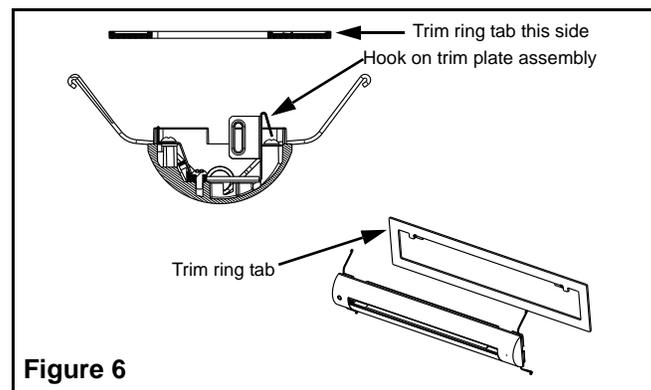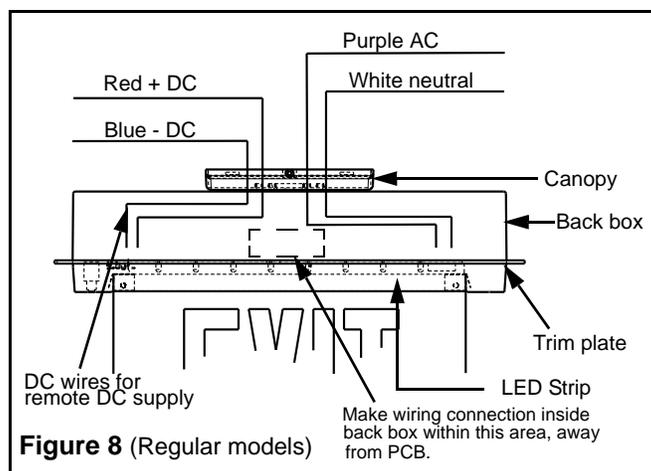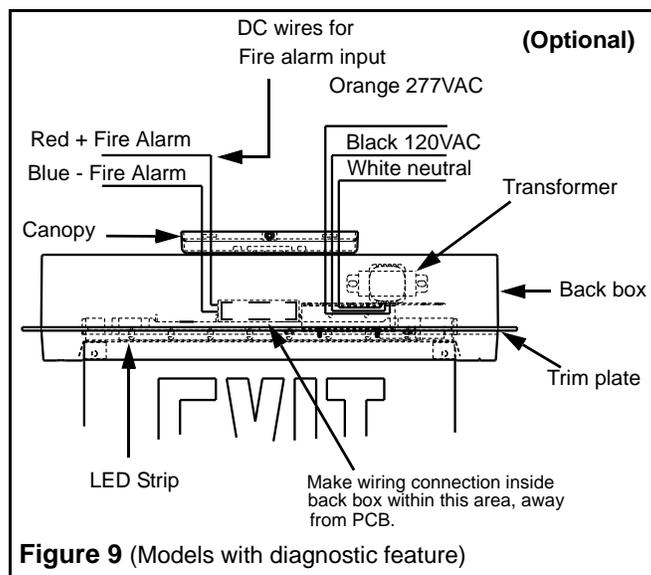
Note:
The hook is used for surface mount units only.

15

Exit panel installation (Figure 10)

1. Remove the exit panel from its carton, do not remove the protective sleeve until the installation is complete.
2. Partially remove the protective sleeve at the top of the exit panel. Push the exit panel, with the clips, into the slot in the trim plate assembly until it snaps. Gently try to pull out the panel to ensure that it is engaged in the trim plate assembly. Remove the protective sleeve.
3. For self powered models, connect the two terminals (located on the red wires) together.
4. Energize AC circuit. Legend and green pilot indicator (self-powered models) will illuminate.

⚠ **IMPORTANT**: The Exit panel can only be removed by lowering the trim plate and pushing on the end clip located on the opposite side of the test switch with a screwdriver.

Self Powered models

Manual testing (Figure 11)

Press test switch. Legend will flicker then will remain lit. On release an external green LED will illuminate and the automatic charger will restore battery to full power.

Figure 5c

Trim ring tab this side
Hook on trim plate assembly

Trim ring tab

Figure 6

Purple AC
Red + DC
White neutral
Blue - DC
Canopy
Back box
Trim plate
DC wires for remote DC supply
LED Strip
Make wiring connection inside back box within this area, away from PCB.

Figure 8 (Regular models)

DC wires for Fire alarm input
(Optional)
Orange 277VAC
Red + Fire Alarm
Black 120VAC
Blue - Fire Alarm
White neutral
Transformer
Canopy
Back box
Trim plate
LED Strip
Make wiring connection inside back box within this area, away from PCB.

Figure 9 (Models with diagnostic feature)

Lightalarms

Automatic testing and diagnostics (optional)

The models with the automatic testing and diagnostic option include a micro-controller which tests the unit on a monthly basis and identifies as well displays failures of the electrical components: battery, charger circuit, LED lamps.

Self-test

The self-test is performed every 30 days for 30 seconds, every 60 days for 30 minutes, and annually for 90 minutes.

Diagnostic function (Figure 11)

The diagnostic function uses the pilot light LED indicator. Service is required if the green LED changes color to red indicating that an alarm condition is detected.

Pilot light	Status	Diagnostic
Green	Steady	Normal (AC ON)
Green	Blinking	Auto Test
Red	Steady on	Battery Disconnect
Red	One Blink	Battery Failure
Red	Two Blinks	Charger Failure
Red	Four Blinks	LED Lamp Failure

Maintenance

None required. Models equipped with batteries: if AC supply is to be disconnected for 2 months or more, the battery must be disconnected (Self-Powered Models only).

Note — For safety reasons Nickel Cadmium batteries are shipped discharged. The unites may require 10 minutes of connection to AC supply before start-up test procedure, and two to seven days to reach full charge.

Warranty: For the complete warranty information, please refer to the landing page of our website (http://www.lightalarms.com).

Back box or EXIT Panel may not be provided.
Refer to Back box /Panel assembly part list
(located on last page) for ordering.
CAUTION: Only the listed assemblies can be installed in this unit.

Figure 10

AC Pilot light / Test switch
Diagnostic light (optional)

Trim plate

Figure 11

Part No.	Description Red Legend (Legend/Background color)	Part No.	Description Green Legend (Legend/Background color)	Part No.	Description Blue Legend (Legend/Background color)	Back Box
004216-L	1-F (Red/Clear) no Arrow	004251-L	1-F (Green/Clear) no Arrow	004713-L	1-F (Blue/Clear) no Arrow	005650 - Recessed mount Back Box (Recessed model only)
004216-L	1-F (Red/Clear) Arrow Left	004268-L	1-F (Green/Clear) Arrow Left	004741-L	1-F (Blue/Clear) Arrow Left	
004218-L	1-F (Red/Clear) Arrow Right	004269-L	1-F (Green/Clear) Arrow Right	004899-L	1-F (Blue/Clear) Arrow Right	
004219-L	1-F (Red/Clear) Dbl-Arrow	004252-L	1-F (Green/Clear) Dbl-Arrow	004900-L	1-F (Blue/Clear) Dbl-Arrow	005651 to 005XXX - Surface mount Back Box (the Three last digits designate color)
004208-L	1-F (Red/White) no Arrow	004243-L	1-F (Green/White) no Arrow	004901-L	1-F (Blue/White) no Arrow	
004209-L	1-F (Red/White) Arrow Left	004271-L	1-F (Green/White) Arrow Left	004902-L	1-F (Blue/White) Arrow Left	
004210-L	1-F (Red/White) Arrow Right	004279-L	1-F (Green/White) Arrow Right	004903-L	1-F (Blue/White) Arrow Right	
004211-L	1-F (Red/White) Dbl-Arrow	004270-L	1-F (Green/White) Dbl-Arrow	004904-L	1-F (Blue/White) Dbl-Arrow	
004229-L	2-F (Red/White) no Arrow	004274-L	2-F (Green/White) no Arrow	004905-L	2-F (Blue/White) no Arrow	
004230-L	2-F (Red/White) Arrow Right and Left	004264-L	2-F (Green/White) Arrow Right and Left	004742-L	2-F (Blue/White) Arrow Right and Left	
004255-L	2-F (Red/White) Dbl-Arrow	004284-L	2-F (Green/White) Dbl-Arrow	004906-L	2-F (Blue/White) Dbl-Arrow	
004242-L	1-F (Red/Mirror) no Arrow	004260-L	1-F (Green/Mirror) no Arrow	004907-L	1-F (Blue/Mirror) no Arrow	
004265-L	1-F (Red/Mirror) Arrow Left	004288-L	1-F (Green/Mirror) Arrow Left	004908-L	1-F (Blue/Mirror) Arrow Left	
004262-L	1-F (Red/Mirror) Arrow Right	004287-L	1-F (Green/Mirror) Arrow Right	004909-L	1-F (Blue/Mirror) Arrow Right	Note: 1-F = Single Side 2-F = Double Side
004257-L	1-F (Red/Mirror) Dbl-Arrow	004286-L	1-F (Green/Mirror) Dbl-Arrow	004910-L	1-F (Blue/Mirror) Dbl-Arrow	
004249-L	2-F (Red/Mirror) no Arrow	004261-L	2-F (Green/Mirror) no Arrow	004911-L	2-F (Blue/Mirror) no Arrow	
004259-L	2-F (Red/Mirror) Arrow Right and Left	004254-L	2-F (Green/Mirror) Arrow Right and Left	004743-L	2-F (Blue/Mirror) Arrow Right and Left	
004258-L	2-F (Red/Mirror) Dbl-Arrow	004253-L	2-F (Green/Mirror) Dbl-Arrow	004912-L	2-F (Blue/Mirror) Dbl-Arrow	