INSTALLATION INSTRUCTIONS (1)

AC ONLY & Self-Powered LED Exit Signs Installation Instructions

AC ONLY item without battery backup.

IMPORTANT SAFEGUARDS

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

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Do not use outdoors.
3. Do not mount near gas or electric heaters.
4. Do not let power cords touch hot surfaces.
5. Use caution when servicing batteries. Avoid possible shorting.
6. Equipment should be mounted in locations and at heights where it will not readily be subjected to tampering by unauthorized personnel.
7. The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
8. Do not use this equipment for other than intended use.
9. Before wiring to AC service, turn off AC power at fuse or circuit breaker.
10. Disconnect AC power and unplug battery before servicing.
11. When relamping, only use lamps specified in the fixture.
12. Battery in this unit may not be fully charged. After the AC service is supplied to unit, let the battery charge up for at least 24 hours before performing any tests.
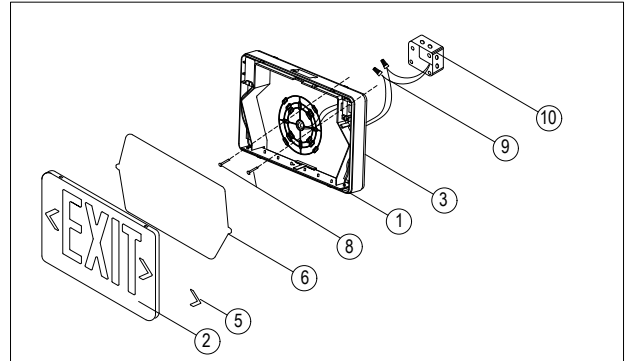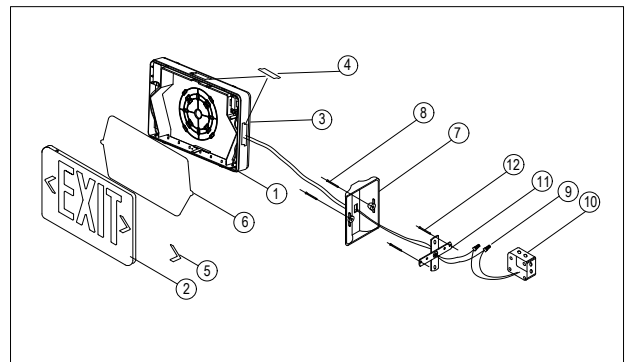
SAVE THESE INSTRUCTIONS

INSTALLATION

BACK MOUNTING - See diagram 1

1. Drill Ø1/4" holes into oblong knock outs on back plate (3) that correspond to junction box (10) holes to be used.
2. Feed the transformer input leads through center hole and make the proper connections. If using 120VAC, connect the black and white leads to the building utility. If using 277VAC , connect the orange and white leads to the building utility. Cap off unused wire. If the unit is self-powered, be sure to snap battery connector together.
3. Feed excess wire into junction box and secure back plate (3) to junction box (10).
4. Snap in arrows (5) on EXIT panel (2) as required. Then snap EXIT panel (2) to housing, top first and then bottom.
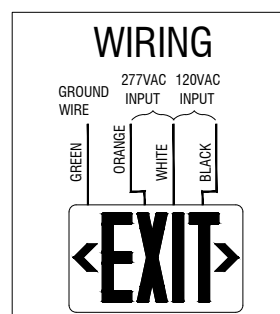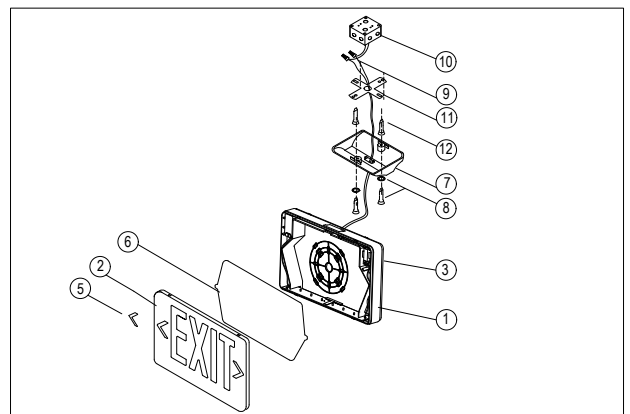
BACK MOUNTING - DIAG. 1

SIDE MOUNTING - DIAG. 2

CEILING MOUNTING - DIAG. 3

WIRING

GROUND WIRE · GREEN
277VAC INPUT · ORANGE
120VAC INPUT · WHITE · BLACK

<EXIT>

PARTS DESCRIPTION

1) Plastic housing
2) EXIT panel
3) Back plate
4) Mounting hole cover
5) Snap in directional arrow
6) Red or green diffuser
7) Canopy
8) Canopy screws
9) Wire nuts
10) Junction box (building utility)
11) Crossbar
12) Crossbar screws (not provided)

INSTALLATION INSTRUCTIONS (2)
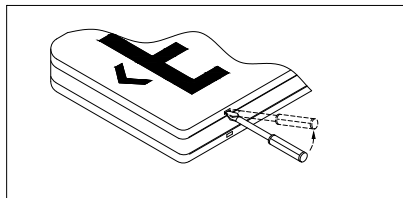
SIDE MOUNTING - See diagram 2

1. Attach crossbar (11) to junction box (10). Set the crossbar so that the longer blade is touching the junction box.
2. Open the EXIT housing. Feed the transformer input leads through side hole, being sure to secure wire into wire guides molded at the edges of the sign.
3. Attach sign to canopy (7) by inserting canopy into sign at an angle, then twist to secure.
4. Make the proper supply lead connections. If using 120VAC, connect the black and white leads to the building utility. If using 277VAC, connect the orange and white leads to the building utility. Cap off unused wire. If the unit is self-powered, be sure to snap battery connector together.
5. Push excess wire into junction box and align holes in canopy (7) with those in crossbar(11).Using screws supplied, tighten canopy to crossbar so that canopy is securely fastened and tight against wall.
6. Snap in arrows (5) to EXIT panel (2) as required. Then snap EXIT panel (2) to housing, top first and then bottom.

CEILING MOUNTING - See diagram3

1. Attach crossbar (11) to junction box (10). Set the crossbar so that the longer blade is touching the junction box.
2. Open the EXIT housing. Feed the transformer input leads through top hole, being sure to secure wire into wire guides molded at the edges of the sign.
3. Attach sign to canopy by inserting canopy into sign at an angle, then twist to secure.
4. Make the proper supply lead connections. If using 120VAC, connect the black and white leads to the building utility. If using 277VAC, connect the orange and white leads to the building utility. Cap off unused wire. If the unit is self-powered, be sure to snap battery connector together.
5. Push excess wire into junction box and align holes in canopy (7) with those in crossbar (11). Using screws supplied, tighten canopy to crossbar so that canopy is securely fastened and tight against ceiling.
6. Snap in arrows (5) to EXIT panel (2) as required.Then snap EXIT panel (2) to housing, top first and then bottom.

OPENING EXIT PANEL
Use flat blade screwdriver to open. Insert screwdriver into the slot and gently pry off the panel.

ASSEMBLING CANOPY TO HOUSING
Insert canopy into housing at a 20 degree angle and twist. Quick snap is now firmly locked.

CAUTION
Trying to remove canopy after it is locked in place may cause damage.

MANUAL TESTING

1) **Manual test switch**
2) **LED indicator (indicates normal operation)**

CAUTION
Battery connector is shipped disconnected. It must be connected at installation. AC only item no battery backup.

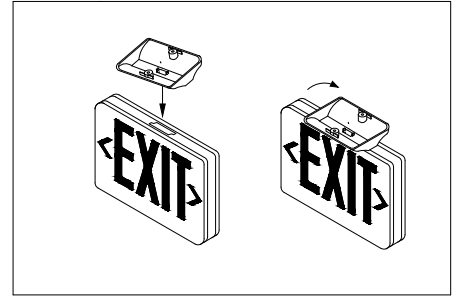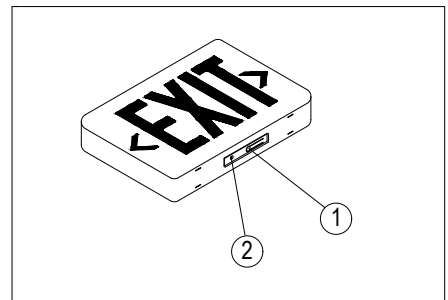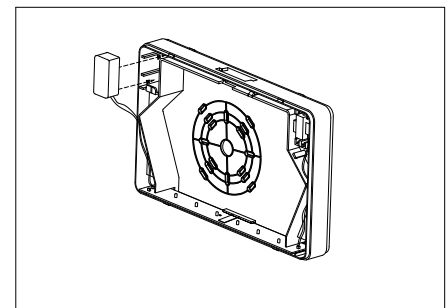**MAINTENANCE (for battery backup item)**
Battery have to recharge if product keep in stock over 9 months, detail manual refer "BATTERY STOCK AND RECHARGE GUIDELINE". We recommend that the equipment be tested regularly in accordance with local codes. Replace the batteries as needed if discharge time do not achieve 90 minutes,

OPERATION (for battery backup item)
Press the test button, unit illuminance by battery backup and the LED indicator will turn off, release the test switch, LED indicator will turn on and the LED heads will turn off.

INSTALLATION INSTRUCTION FOR CYBER-TEST OPTION

(SELF-DIAGNOSTICS/SELF-TESTING OPTION)

1. Install the Exit Sign & Emergency Lighting Combo according to installation instruction sheet.

2. When AC power is supplied to fixture, the unit will automatically initiate a self-test and self-diagnostic test as follows:

(1) Verifies battery disconnection, charger board failure, lamps failure and transformer failure at every 5 seconds.

(2) One-minute self-testing every month.

(3) 30 minutes self-testing on the 6th month of the year after installation.

(4) 90 minutes self-testing on the 12th month of the year after installation.

(5) Factory pre-set all functions- Do not need field adjustment.

3. Dual color LED lamp indicator shows the following status:

(1) Green color ┌── ON/ Ready

└── Blinking:Testing

(2) Red color (Service Alert)

(3) Service Alert LED Code (Red color LED lamp indicator)

●	One blink ON/pause	(4 seconds)	Battery is not connected
●●	Two blinks ON/pause	(4 seconds)	Battery is shorted or battery voltage drops below than acceptable value
●●●	Three blinks ON/pause	(4 seconds)	Charger board circuit fault
●●●●	Four blinks ON/pause	(4 seconds)	Transfer function failure
●●●●●	Five blinks ON/pause	(4 seconds)	Emergency lamp fault
●●●●●●	Six blinks ON/pause	(4 seconds)	Remote head's emergency lamp fault(if fixture has remote capability)
●●●●●●●	Seven blinks ON/pause	(4 seconds)	Exit LED strip fault (for Exit Signs only)

CAUTION:

After solving the fault of emergency equipment, please press test button for 2 seconds without release then LED lamp will show green color.

4. For manual test, press test button as follows:

Press test button once	(within 2 seconds)	1 minute test
Press test button twice	(within 2 seconds)	5 minutes test
Press test button 3 times	(within 2 seconds)	30 minutes test
Press test button 4 times	(within 2 seconds)	90 minutes test

5. Fire Alarm function:

Exit Sign & Emergency Lighting Combo unit only connects the extra wires labeled fire alarm only to fire alarm (DC 6V-24V only).Exit sign will be blinking when received signal from fire alarm.
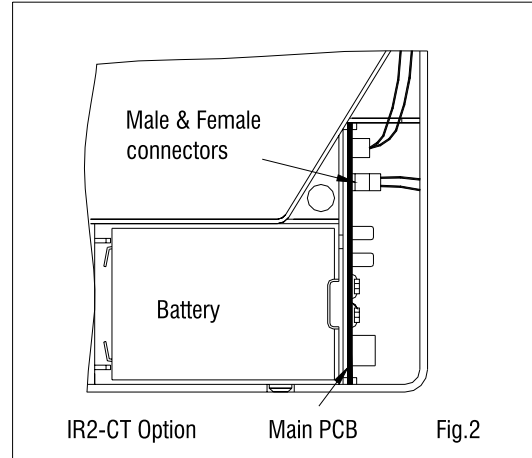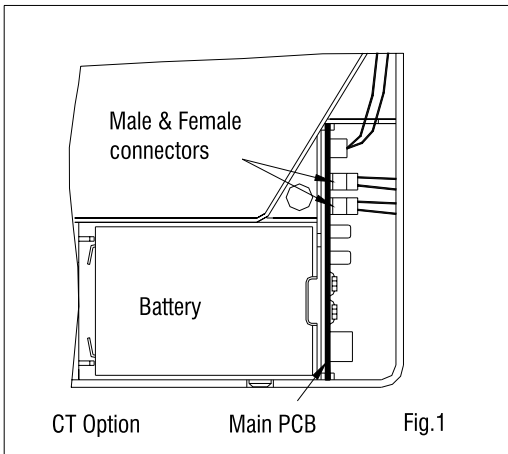
6. Remote Capability for Cyber-Test Option

In order to connect remote lamp heads with self-diagnostics/self-testing option, please refer to the instruction on next page.
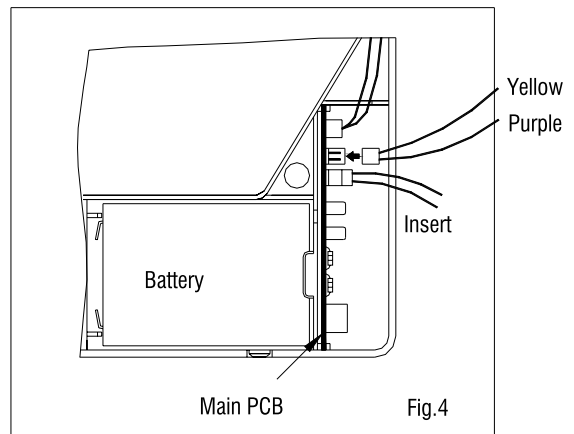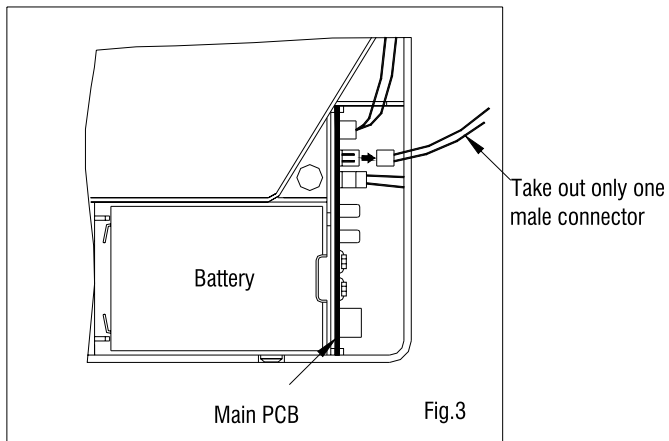
7. Installation instruction for remote light heads.

(1) If Exit Sign & Emergency Lighting Combo unit has Cyber-Test Option, please follow the following installation instruction.

(2) If unit has only Cyber-Test option, main PCB has two female   connectors (call CT option in below) (See Fig.1) and if unit ha s
   Cyber-Test option and Infrared Test option, main PCB has only one female connector (call IR2-CT option in below)
   (See Fig.2).

The female connector is connected with male connector (having one purple color wire) for grounding.

Male & Female connectors

Battery

CT Option   Main PCB   Fig.1

Male & Female connectors

Battery

IR2-CT Option   Main PCB   Fig.2

(3) If unit has CT option, one or two remote light heads (6V 12W Max.) can be connected to main PCB.
   If unit has IR2-CT option, one remote light head (6V 12W Max.) can be connected to main PCB.

(4) If one remote light head is connected to the unit on CT-option, please take out one male connector and **DO NOT** touch another
   male connector and keep it assembled as it is. (See Fig.3)
   Connect male connector on Extra wire (Yellow & Purple wires) for remote capability (supplied) to the female connector.
   See Fig.4)

Battery

Take out only one male connector

Main PCB   Fig.3

Yellow
Purple

Insert

Battery

Main PCB   Fig.4

(5) If two remote heads are connected to the unit on CT option, please take out two male connectors and connect male connecto r
   on extra wire (Yellow & Purple wires) for remote capability (supplied) to the female connector.

(6) If one remote head is connected to the unit on IR2-CT option, please take out male connector and connect male connector on
   extra wire (Yellow & purple wires) for remote capability (supplied) to the female connector.

(7) Make the proper lead connection(s) with remote head wires at junction box using extra lead wires in the unit.