

S900C Series

Installation Instructions



IMPORTANT SAFEGUARDS READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

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

- **DISCONNECT AC POWER SUPPLY BEFORE SERVICING.**
- Installation and servicing of this equipment should be performed by qualified service personnel only.
- Ensure that the electrical wiring conforms to the National Electrical Code NEC® and local regulations if applicable.
- Do not mount near gas or electrical heaters.
- Do not use outdoors.
- Equipment should be mounted in locations and at heights where it will not be readily subjected to tampering by unauthorized personnel.
- The use of accessory equipment not recommended by the manufacturer may cause an unsafe condition.
- Any modification or use of non-original components will void the warranty and product liability.
- Do not use this equipment for other than intended use.
- Allow battery to charge for 24 hours before first use.
- For use with metal enclosed wiring systems.

SAVE THESE INSTRUCTIONS!

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Installation Instructions

Wall (Fig. 1) or Ceiling (Fig. 2) Mount Installation

1. Knockout side center hole, insert plastic washer, assemble canopy using M4*8mm screws.
2. Separate trim plate to connect battery connectors.
3. Feed AC supply wires through the center hole.
4. Assemble trim plate back using M3*15mm screws.
5. Attach crossbar to junction box, set the longer blade to crossbar touching the J-Box.
6. Route the proper wires through mounting hole out of housing, make electrical connections inside the J-Box as wire diagram.
7. Push excess wire into J-Box, use screws to tighten canopy to crossbar so that canopy is securely fastened and tight against the wall.
8. Connect light bar connector, assemble panel module to trim plate, adjust the lamp heads as needed.
9. Determine direction for chevrons as needed.

Recessed Ceiling (Fig.3) or Recessed Wall Mount Installation (Fig. 4)

1. Position recessed kits between joists. Make sure bar hangers to be hanged in the correct position. Position recessed kits temporarily by hammering "nail-in" tabs on bar hangers, then secure permanently with nails. Bar hangers should be level with bottom of joists. Adjust height of recessed kits vertically using adjusting slots and then tightening all screws on adjusting slots and bar hanger bracket to secure adjusting bracket and bar hangers. (Fig.5)
2. Separate trim plate, press one side spring to take out the module, connect battery connectors. (Fig. 6)
3. Hang safety cable to the module clip. (Fig. 6)
4. Disassemble J-Box cap, route the AC line and proper wires into the J-Box. (Fig. 6)
5. Make proper electrical connections. If using 120VAC, connect black and white leads to the building utility. If using 277VAC, connect orange and white leads to the building utility. Cap off unused wire. (Fig. 7)
6. Push excess wire into J-Box, tighten J-Box cap back.
7. Assemble trim plate back using M3*15mm screws (Fig. 3 or 4)
8. Connect light bar connector, assemble panel module to trim plate, adjust the lamp heads as needed. (Fig. 3 or 4)
9. Determine direction for chevrons as needed.

Fig. 1

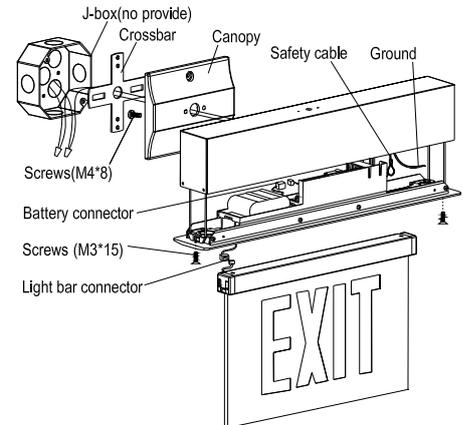


Fig. 2

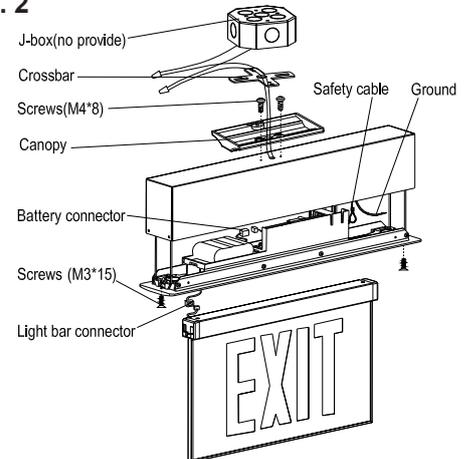


Fig. 3

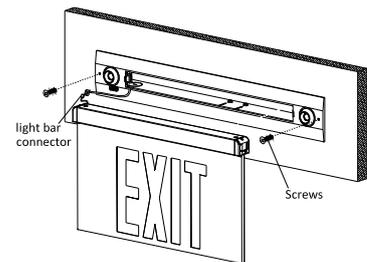
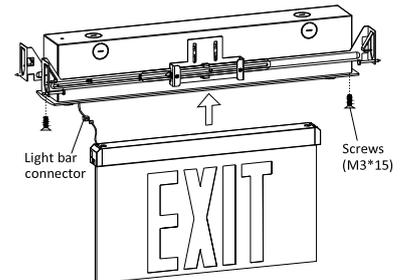
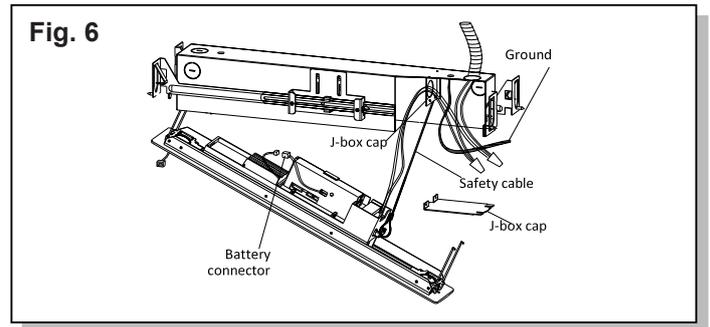
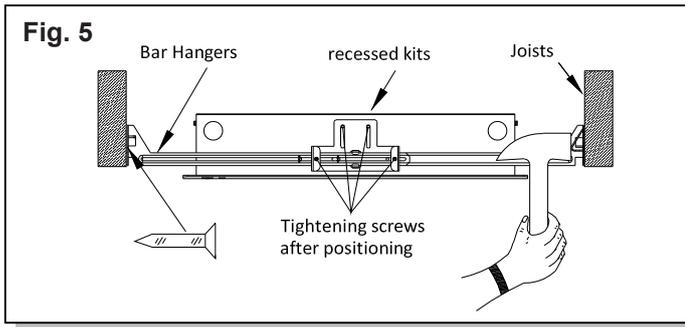
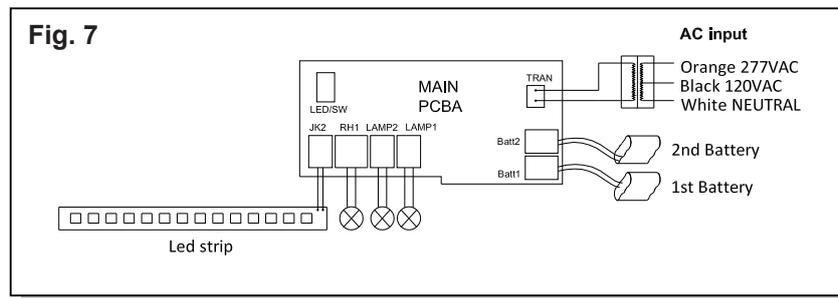


Fig. 4





Wiring Diagram (Fig. 7)



Operation

The battery in this unit may not be fully charged. After electricity is connected to the unit for at least 24 hours, then normal operation of this unit should take effect. To check, press the “TEST” button. The EXIT sign should stay illuminated by battery backup and the LED indicator will be turned off. Release the “TEST” button, LED indicator will be turned on.

In accordance with NFPA 101, your emergency lighting system must be tested monthly for a minimum of 30 seconds and annually for 90 minutes. Refer to your local codes for any additional requirements that may apply.

Testing and Reporting Instructions (-G2 and -G3 models)

- When AC power is supplied to fixture, the unity will automatically initiate a self-test and self-diagnostic test as follows:
 - Verifies battery disconnection, charger board failure at every 5 seconds.
 - 1 minute self-testing every month.
 - 30 minutes self-testing on every 6 months after installation.
 - 90 minutes self-testing on every 12 months after installation.
- Dual color LED lamp indicator shows the following status:
 - Green color: On / Ready
 - Blinking: Testing
 - Red color: (Service Alert)
 - Service Alert LED Code (Red color LED lamp indicator)

●	One blink ON/pause (4 seconds)	Battery is not connect
●●	Two blinks ON/pause (4 seconds)	Battery is shorted or battery voltage drops below than accepted 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)

Note: After solving the fault of emergency equipment, please press test button for 2 seconds then release to reset. LED indicator will show green.

3. "-G2" and "-G3" models also have a manual test function, press test button as follows:

Press test button once (within 2 seconds)	30 seconds discharge test
Press test button twice (within 2 seconds)	3 minutes discharge test
Press test button 3 times (within 2 seconds)	30 minutes discharge test
Press test button 4 times (within 2 seconds)	90 minutes discharge test
*Press and hold test button for 8 seconds	Fixture will leave network and reset itself

*Note: only applies to "-G3" models. If you have problem to initiate provisioning or if you know the unit belongs to other Guardian Network

Networking Operations for "-G3" Models

Model with "-G3" suffix is our world winning design equipped with "wireless testing and reporting" features. Unit that has "-G3" suffix in its model number is capable of joining Guardian emergency lighting management system. It will be part of a large testing system to be tested and report result wirelessly.

Once powered up and commissioning allowed, unit will automatically join Guardian network and get provisioned. Upon the completion of the commissioning, unit will perform testing and report based on set schedules.

For more information about commissioning, configurations and testing, please visit website, <https://www.barronltg.com> for details.

Remote Heads Connection Instructions (Option)

1. Remove jump connector from the female connector on PCBA. (Fig. 8)
2. Attach the remote male connector into the female connector on PC board.
3. Connect extended remote head wires to the remote wires using wire nuts. Yellow is positive (+) and the purple is negative (-). (Fig. 9)

