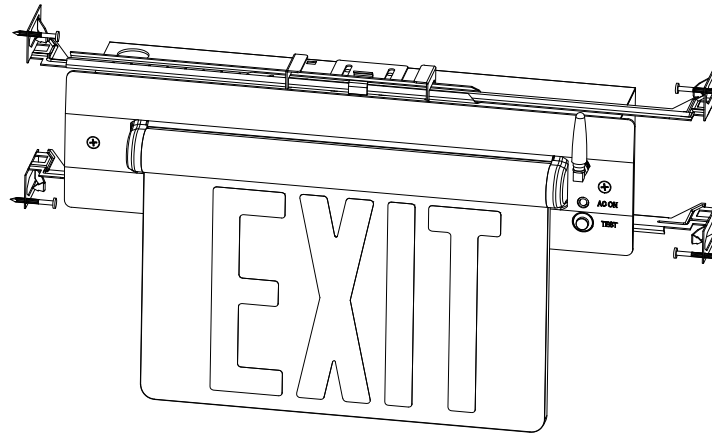IMPORTANT SAFEGUARDS
READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

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!

Technical Support ■ (623) 580-8943 ■ technicalsupport@barronltg.com

S900U Series

Installation Instructions

Surface Ceiling and Wall Installation

1. Use a flat blade screwdriver to open front cover and connect battery connector. Feed the AC wires out of the housing. (Fig. 1)

2. Assemble canopy onto main body assembly by feeding AC wires through the canopy center hole and crossbar center hole and attaching with (2) PM4*40 screws (supplied). (Fig. 2)

3. Feed AC wires from fixture inside of the junction box. Connect the fixture wires to the power supply wires using the wire nuts provided. Connections should be made inside the metal junction box. Cap all unused leads to prevent shorting. Refer to **Wiring Diagram** section. (Fig. 17).

4. Attach crossbar to junction box, using screws if needed. (Screws not provided)

5. Use (2) PM4*15 screws (supplied) to tighten canopy to crossbar. (Fig. 3)

6. Peel off protective film from acrylic panel.

7. Insert EXIT panel into main body assembly gently. If EXIT panel is for single face, make sure EXIT letter direction is correct. (Fig. 4)

8. Determine direction for chevron indicator. Refer to **Chevron Placement** section. (Fig. 16)

9. For surface wall installation, acrylic panel can rotate 90° to become a surface wall installation. (Fig. 5)

Surface End Installation

1. Use a flat blade screwdriver to open front cover and connect battery connector. (Fig. 1)

2. Remove the hole plug from the mounting end cap. (Fig. 6)

3. Pull out AC supply wires and feed wires through the center hole of the mounting end cap, canopy and crossbar. Attach canopy onto main body assembly with (2) PM4*15 screws (supplied). (Fig. 6)

4. Reference steps 4-8 in surface ceiling and wall installation for surface end installation.

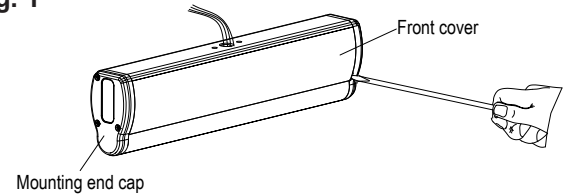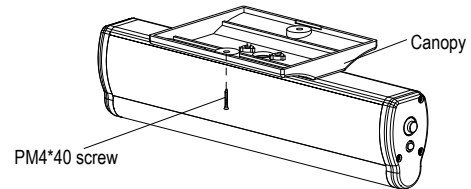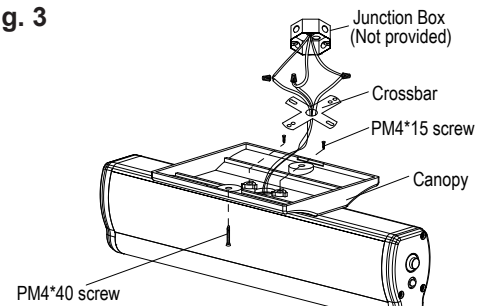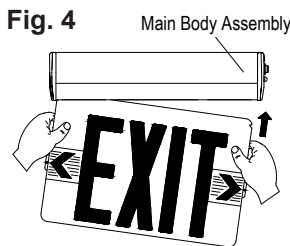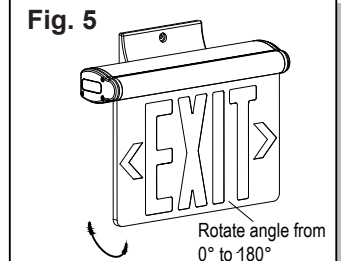5. Acrylic panel can rotate 90°. (Fig. 5)

Fig. 1

Front cover

Mounting end cap

Fig. 2

Canopy

PM4*40 screw

Fig. 3

Junction Box (Not provided)

Crossbar

PM4*15 screw

Canopy

PM4*40 screw

Fig. 4

Main Body Assembly

Fig. 5

Rotate angle from 0° to 180°

Fig. 6

Mounting end cap

(Not provided)

EXITRONIX
BARRON
emergency lighting
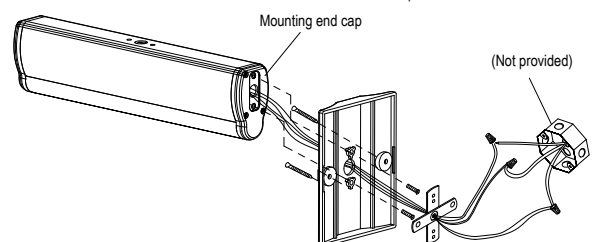
Recessed Ceiling Installation

1. Use a flat blade screwdriver to open front cover and connect battery connector. Feed the AC wires out of the housing. (Fig. 7)

2. Remove junction box cover and mount junction box case on enclosure, use (2) TM4*8 screws (Fig. 8). Feed AC supply wire into junction box.

3. Unscrew and remove test switch side end cap, disconnect test switch connector. Remove test switch, LED indicator and bushing from end cap. Disassemble antenna connector and feed the test switch, LED indicator and antenna wire out of end cap. Re-secure end cap on housing by using previously removed screws. Connect antenna extension wire (provided in accessories bag) on antenna connector. (Fig. 9)

4. Assemble test switch, LED bushing and LED indicator on the trim plate. Assemble antenna onto trim plate. (Fig. 10)

5. Using a phillips screwdriver take off the junction box cover and punch out the appropriate hole for AC wires to feed through.

6. Position recessed kit and bar hangers between joists. Make sure bar hangers are hung in the correct position. Position recessed kit temporarily by hammering "nail-in" tabs on the bar hangers, then secure permanently with nails. Bar hangers should be level with bottom of joists. (Fig. 11)

7. Adjust height of recessed kit vertically by using adjusting slots. Tighten all screws on adjusting slots and bar hanger bracket to secure adjusting bracket and bar hangers. (Fig. 11)

8. Feed AC wires from fixture inside of the junction box. Connect the fixture wires to the power supply wires using the wire nuts provided. Connections should be made inside the metal junction box. Refer to **Wiring Diagram** section. (Fig. 17). Restore junction box cover after wiring the connections.

9. Insert fixture into hanger bracket and snap in by spring. (Fig. 11) Connect test switch, LED indicator and antenna connector. Secure trim plate to the metal box by using 2 screws provided. (Fig. 13)

10. Peel off protective film from acrylic panel. (Fig. 14)

11. Determine direction for chevron indicator. Refer to **Chevron Placement** section. (Fig. 16)
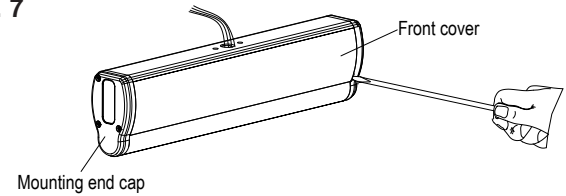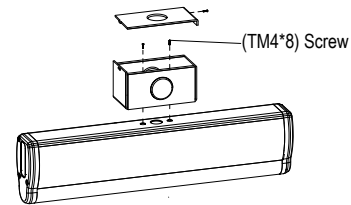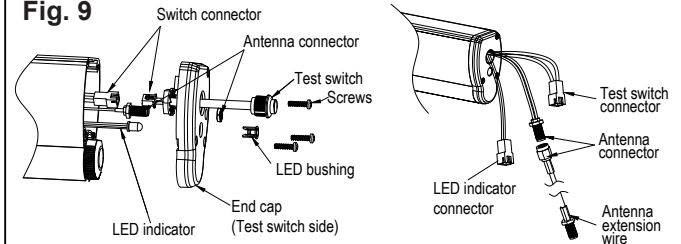
Fig. 7
Front cover
Mounting end cap
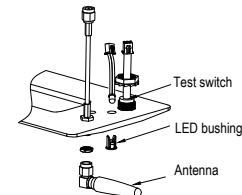
Fig. 8
(TM4*8) Screw

Fig. 9
Switch connector
Antenna connector
Test switch
Screws
LED bushing
End cap (Test switch side)
LED indicator
Test switch connector
Antenna connector
LED indicator connector
Antenna extension wire

Fig. 10
Test switch
LED bushing
Antenna

Fig. 11
Hanger bars
Joists
Adjust screws
Tightening screws after positioning

Fig. 12

Fig. 13
Antenna connector
Test switch connector
LED indicator connector
Test switch
Trim plate
Screws for trim plate

Fig. 14

BARRON
lighting group
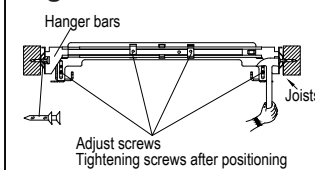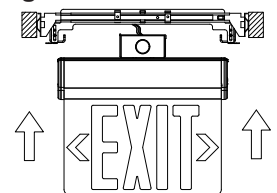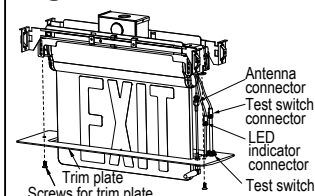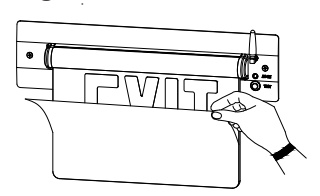
Recessed Wall Installation
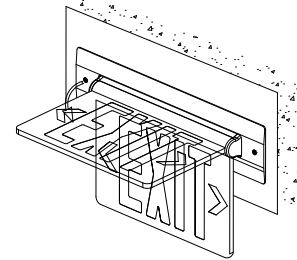
1. Reference steps 1-11 in recessed ceiling installation for recessed wall mounting.

2. Acrylic panel can rotate 90° to become a recessed wall installation. (Fig. 15)

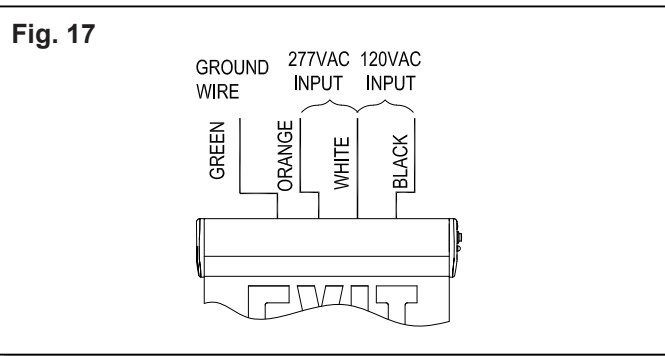Fig. 15

Chevron Placement (Fig. 16)

• If chevron is needed remove only the instruction film.
• If no chevron is needed, remove both the instruction film and chevron together.

Fig. 16

Wiring Diagram (Fig. 17)

Note: Cap off the UNUSED input lead. Failure to do so can cause an unsafe operating condition.

Fig. 17

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/G3PRO models)

1. When AC power is supplied to fixture, the unit 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.

2. 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, 4 second pause	Battery is not connected
● ●	Two blinks, 4 second pause	Battery voltage too low
● ● ●	Three blinks, 4 second pause	Charger board circuit failure
● ● ● ●	Four blinks, 4 second pause	Transfer function failure
● ● ● ● ● ● ●	Seven blinks, 4 second pause	LED strip failure

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/G3PRO" 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

*Only applies to "-G3/G3PRO" models. For use if you have problem to initiate provisioning or if you know the unit belongs to other Guardian G3 Network

Networking Operations for "-G3/G3PRO" Models
Model with "-G3/G3PRO" suffix is our world winning design equipped with "wireless testing and reporting" features. Unit that has "-G3/G3PRO" suffix in its model number is capable of joining Guardian G3 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 G3 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/guardian-g3-products.php** for details.