

INSTRUCTIONS

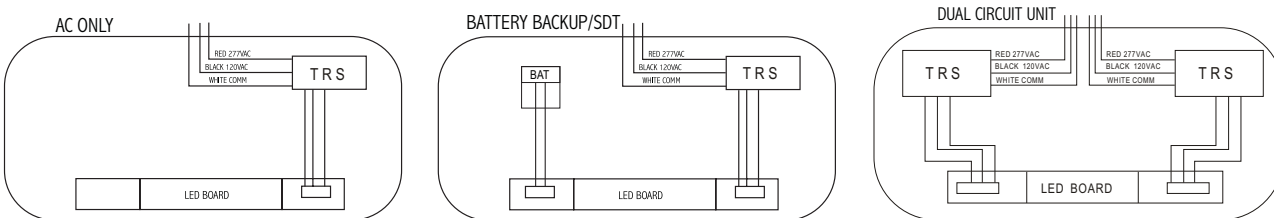
IMPORTANT SAFEGUARDS

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

1. **READ AND FOLLOW ALL SAFETY INSTRUCTIONS**
2. Disconnect power before performing work on electrical equipment.
3. Do not use outdoors.
4. Do not let power cords touch hot surfaces and do not mount near gas or electric heaters.
5. Use caution when servicing batteries. Battery acid can cause burns to skin and eyes. If acid is spilled on skin or eyes, flush with fresh water and contact a physician immediately.
6. Equipment should be mounted in locations and at heights where unauthorized personnel will not readily subject it to tampering.
7. The use of accessory equipment not recommended by Beghelli USA, may cause an unsafe condition, and will void the unit's warranty.
8. Do not use this equipment for other than its intended purpose.
9. Servicing of this equipment should be performed by qualified service personnel.
10. **SAVE THESE INSTRUCTIONS!**

WIRING DIAGRAMS

WARNING: MAKE SURE THAT POWER IS OFF BEFORE MAKING ANY ELECTRICAL CONNECTIONS!



- WHITE: Return for 120VAC or 277VAC wiring
 - BLACK: Hot lead for 120VAC wiring
 - RED/ORANGE: Hot lead for 277VAC wiring
 - GREEN: Equipment ground
1. Make sure that all wires are carefully tucked away from the cavity behind the plastic inset.
 2. Plug the mating connector of the battery to the PC board.
 3. Unused wires must be capped using enclosed wire nuts.

INSTALLATION

CANOPY MOUNTING (Top or Side-end mount)

1. Remove face plate cover by pulling equally at the outer rim of the face plate on two opposite sides. Remove ground wire from face plate. See Fig. F.
2. Pop out the plastic mounting hole cover on the top or the side of the sign. Place one of the nuts from threaded stem rod in the slot inside the housing just inside of the unit. See Fig. A.
3. Feed the AC supply and ground wire through the nut & hole and out of the sign housing. See Fig. B.
4. Secure the canopy J-Box cover to the mount area of the exit sign by inserting it and shifting it over to align the hole.
5. Feed AC supply wires and ground wire through threaded stem and screw stem into nut inside unit. Screw the remaining nut for the threaded stem onto the stem and tighten securely to complete the mounting of the canopy to the exit sign. See Fig. C.
6. Determine the position the exit needs to be mounted (the way the face needs to be pointed). Use the included round J-Box mounting plate and small #8-32 screws to accomplish it. See Fig. D.
7. Make connection with the AC supply wires in the J-Box as described in the electrical connection section of this instruction.
8. Mount the sign to the J-Box plate with the 2 #8-32 screws provided and tighten securely. See Fig. E.
9. Remove the proper chevron(s) from the EXIT legend(s) if necessary. Re-attach the ground wire to the face plate. See Fig. F.
10. Attach battery jumper wire (where applicable) to PC board and replace face plate back on the unit to complete installation.

FLUSH MOUNTING

1. Remove face plate cover by pulling equally at the outer rim of the face plate on two opposite sides. Remove ground wire from face plate. See Fig. F.
2. Remove the center KO and also required KOs that will match the junction box.
3. Route the wires through the center knock-out. Make electrical connections inside the junction box as described in the electrical connection section of this instruction sheet. Push the wires back against the back of the sign to prevent the cables from interfering with the illumination of the letters.
4. Mount the sign to the J-Box.
5. Remove the proper chevron(s) from the EXIT legend(s) if necessary. Re-attach the ground wire to the face plate. See Fig. F.
6. Attach battery jumper wire (where applicable) to PC board and replace face plate back on the unit to complete installation.



FIGURE A

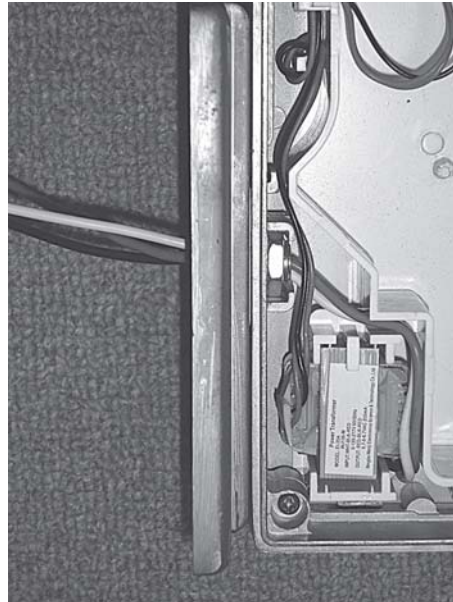


FIGURE B

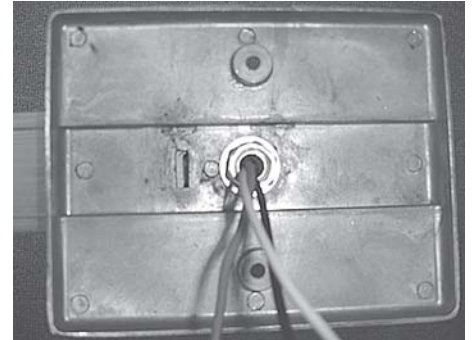


FIGURE C



FIGURE D



FIGURE E

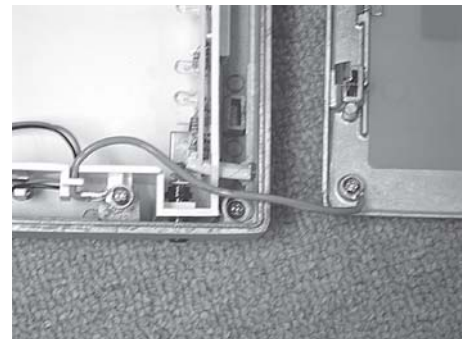


FIGURE F

INSTRUCTIONS FOR AUTOTEST:

The Autotest function is factory preset without any field adjustment. It serves the following tests:

1. On-line real time monitoring of battery and LED(s): Identifies battery charging, disconnection and failure along with LED failures
2. 30-second discharge once every 30 days (conforming to NFPA code requirements), after AC power has been supplied for a minimum of 24 hours.
3. 30-minute discharge once every 180 days, after AC has been supplied for a minimum of 24 hours.
4. 90-minute discharge once every 365 days (conforming to NFPA code requirements), after AC power has been supplied for a minimum of 24 hours.

FAULT INDICATION:

FAULT DESCRIPTION	LED INDICATION
Battery disconnection	STEADY Red
Battery recharge failure	FLASHING Red
Battery failure	Red BLINKING '2' times
LED failure	Red BLINKING '3' times

*A battery recharge is more likely seen after a monthly or annual auto-discharge

** A battery failure is more likely seen when the unit goes into a monthly/ annual discharge test and/or fails to run the LED strip for the designated amount of time in Test/Emergency mode

MANUAL TESTING:

This unit also provides for manual testing by pushing the test switch in a specific pattern. The different patterns and the resulting tests are listed in the table below.

ACTION	REACTION AND LED INDICATION
Push test button Once (within 2 seconds)	30-second test: FLASHING Green
Push test button Twice (within 2 seconds)	30-minute test; Green BLINKING '2' times
Push test button Thrice (within 2 seconds)	90-minute test; Green BLINKING '3' times
Push and Hold test button (for 3-5 seconds)	Interruption
Push and Hold test button (for more than 6 seconds)	System reset

OPERATION:

During an electrical power failure, the LED strip will switch to Emergency mode and stay LIT for a minimum of 90 minutes. To test this unit, charge the battery initially for 2 hours. Then, press the test switch. Pressing the test switch will activate a simulated emergency mode, during which with the LED indicator will flash/blink green. The LEDs will turn OFF after 30 seconds/30 minutes/90 minutes respectively.