

Troubleshooting

Symptom	Solution
All letters are OFF	<ul style="list-style-type: none"> • Check AC input connection and/or check circuit breaker. • Check wire connection(s) at the Tetra® LED System and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the red striped wire (+) of the LED strip to the red wire (+) of the power supply and the white wire (-) of the LED strip to the black wire (-) of the power supply.
Some LEDs appear dim	<ul style="list-style-type: none"> • Ensure the overall length of the Tetra® LED System does not exceed the maximum load. • Ensure the length of supply wire is equal to or below the recommended remote mounting distance.
Some of the letters are not illuminated	<ul style="list-style-type: none"> • Check wire connection(s) at the Tetra® LED System and power supply for improper termination(s) or short circuits. Properly terminate or replace the wire connection(s). • Check that connections are the red striped wire (+) of the LED strip to the red wire (+) of the power supply and the white wire (-) of the LED strip to the black wire (-) of the power supply.
Shadows	<ul style="list-style-type: none"> • Re-route supply wire and secure to the back of the can with silicone. Adjust wire connector orientation so that it does not cover any LEDs. • Adjust LED layout to ensure uniformity of illumination on the face of the letter.

⚠ WARNING!

RISK OF ELECTRIC SHOCK:

- Turn power OFF before inspection, installation or removal.
- Properly ground Tetra Power Supply enclosure.



RISK OF FIRE:

- Follow all NEC and local codes.
- Use only UL approved wire for input/output connections. Minimum size 18 AWG (0.82 mm²)

Conforms to the following standards:



6180 Halle Drive • Valley View, Ohio 44125-4635 • USA
 P: 216.606.6555 • F: 216.606.6599 • www.led.com • info@led.com

For customer service & technical support, contact:
1-888-MY-GE-LED (1.888.694.3533)

Lumination, LLC is a subsidiary of the General Electric Company. Tetra is a trademark of Lumination, LLC. The GE brand, logo, and ecomagination are trademarks of the General Electric Company. © 2008 Lumination, LLC. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.

SIGN055-R082008

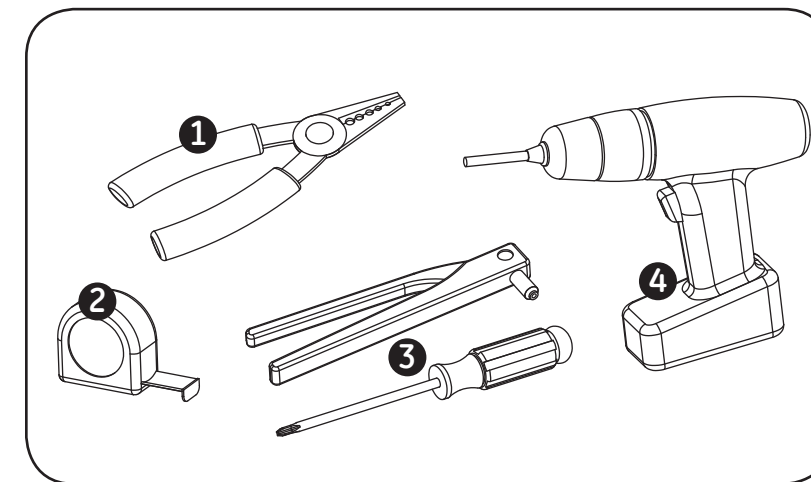
12
Volt

Tetra® miniMAX

LED Lighting System

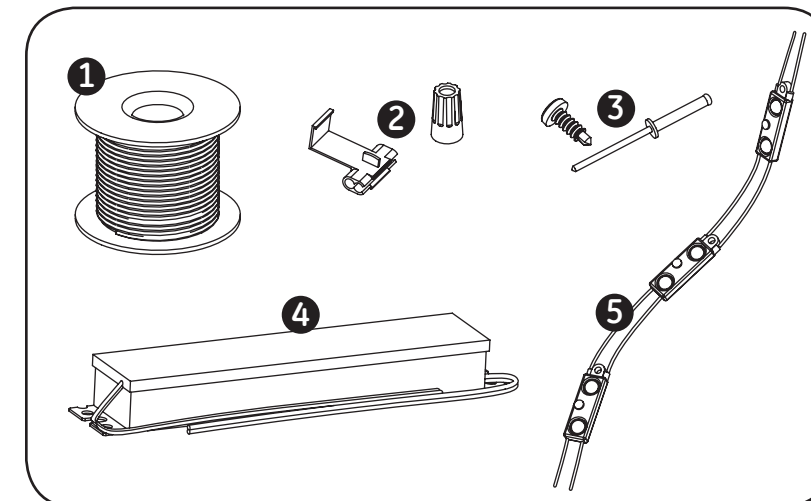
(GEWHMMS5, GEWWMMS5)

Tools and Components



Tools:

- 1 Wire stripper/cutter
- 2 Tape measure
- 3 Rivet gun or screwdriver
- 4 Cordless drill



Components:

- 1 UL approved 18 AWG (0.82 mm²) supply wire
- 2 UL approved 22-14 AWG (0.33-2.08 mm²) wire connectors or 22-18 AWG (0.33-0.82 mm²) in-line/IDC connectors
- 3 #6 or #8 (M3 or M4) screws or 1/8 inch (3.2 mm) rivets
- 4 Power Supply (GEPS12-20, GEPS12-60 or GEPS12-60U)
- 5 Tetra® miniMAX LED modules

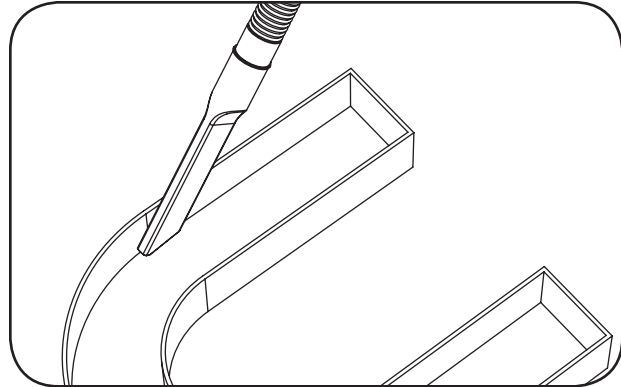
⚠ WARNING

Risk of electrical shock. Turn power OFF before inspection, installation or removal.

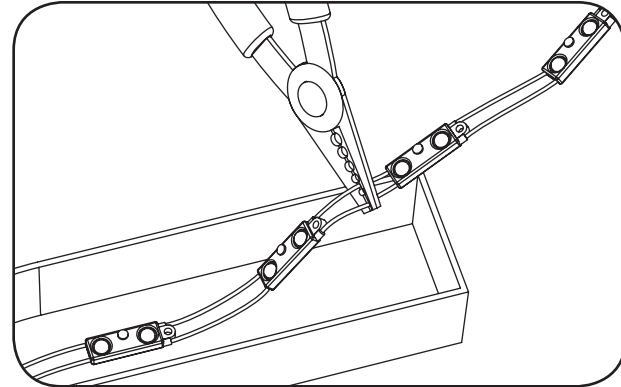


imagination at work

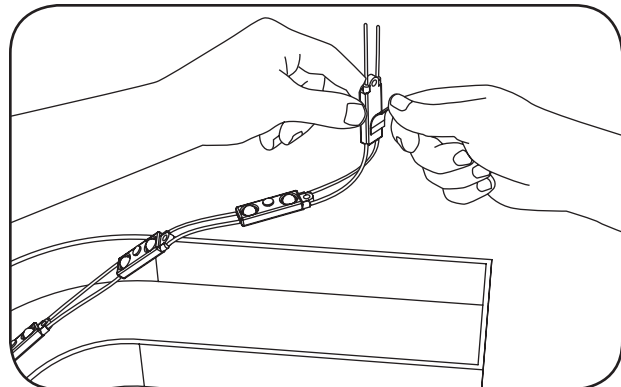
Step 1: Layout Modules



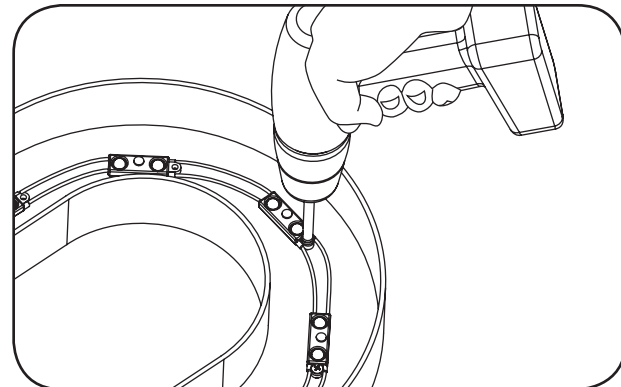
1 Clean & remove all debris from the inside of the channel letter before you begin.



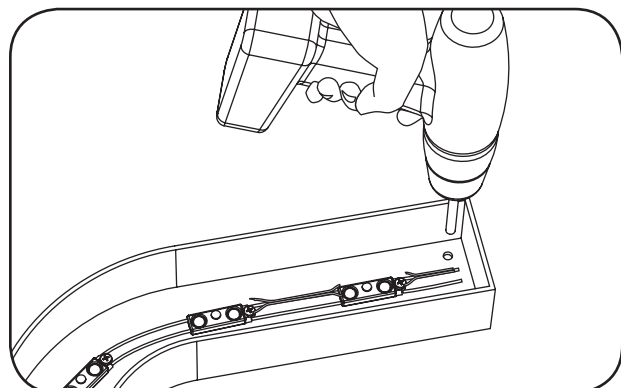
2 Measure and cut Tetra LED strip to the appropriate length for each letter.
Cuts can be made between any of the modules.



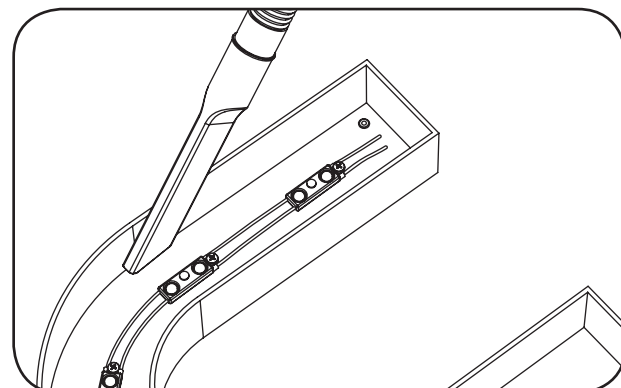
3 Remove tape backing and stick LED modules into place.
Continue until you have reached the end of the strip.



4 Use rivets or screws to secure the LED strip within the channel letter.
Use #6 (M3) or #8 (M4) pan headed metal screws or 1/8-inch (3.2 mm) rivets.

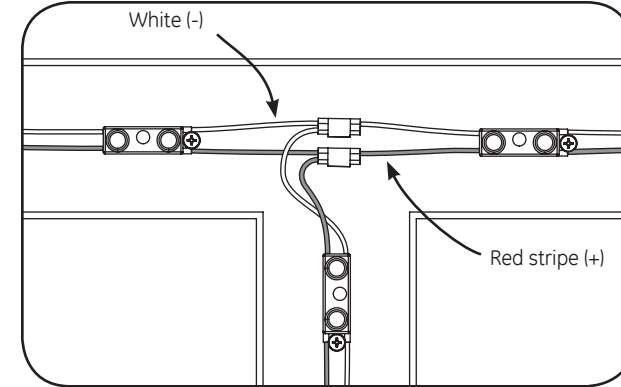


5 Drill a 1/4-inch (6.4 mm) hole near the LED strip and grommet the hole for supply wire access.

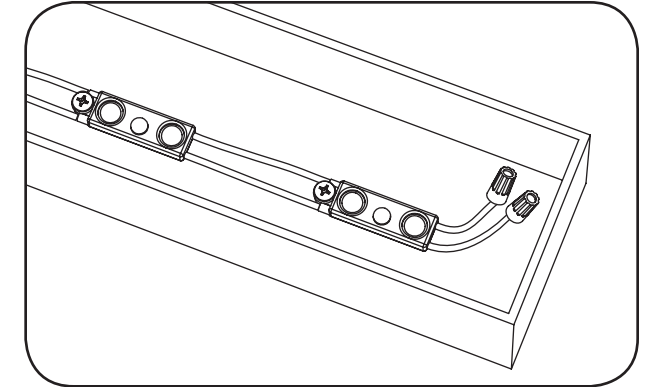


6 Clean & remove all debris from the inside of the channel letter.

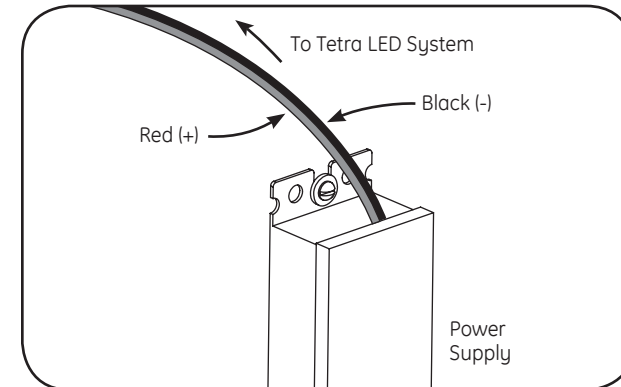
Step 2: Electrical Connections



1 Connect LED strips using in-line (IDC) connectors or twist-on wire connectors.

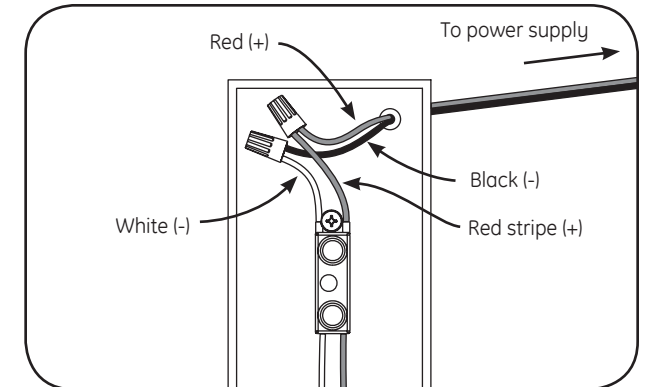


2 Must cap all exposed wires with appropriate wire connectors.



3 Run a wire from the Power Supply to each channel letter and connect to the first LED module on the strip.
Must be used with the **GEPS12-20, GEPS12-60 or GEPS12-60U Power Supplies** (12-Volt).

NOTE: Refer to the **Power Supply Installation Instructions** for loading and remote mounting information.



4 Connect the red stripe wire (+) of the LED strip to the red wire (+) of the power supply. Connect the white wire (-) of the LED strip to the black wire (-) of the power supply.
NOTE: All electrical connections should be made within the letter.