Micro Star™ Installation Instructions for RailEasy™ Systems

The Micro Star LED Light is the smallest self-contained LED on the market. These LED lights are available in 12v and each draws only .02 amps. Each bulb has a life cycle of 18,000 hours. Being completely waterproof and encased in a type 316L stainless steel housing, these lights are able to stand up to the most demanding environments. The Micro Star LED Light is both a functional and creative lighting alternative.

The following guide will take you step-by-step through the process of installing Micro Star LED lights on a RailEasy system.

**Tools**

**Required & Recommended**

- Carpenter’s Square
- Pencil
- Work Gloves
- Safety Glasses
- Power Drill
- 1/4” Drill Bit
- Tape Measure

**Tips for a Successful Installation**

- Read the instructions completely before beginning the installation.
- Check carton(s) to determine part count is complete.

*ALWAYS USE WORK GLOVES AND WEAR SAFETY GLASSES TO PROTECT YOUR HANDS AND EYES.*
Micro Star Components

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>S0801-0000</td>
<td>Micro Star LED Light</td>
</tr>
<tr>
<td>S0832-0001</td>
<td>Micro Star Transformer (1 Amp)</td>
</tr>
<tr>
<td>S0832-0005</td>
<td>Micro Star Transformer (5 Amps)</td>
</tr>
</tbody>
</table>

Additional Components

Installing Micro Star LED Lighting

**Micro Star LED Lighting**
The Atlantis Railing Micro Star LED light is the smallest self-contained LED on the market (See Figure A) and come pre-installed in the top rails.

**Install the Transformer**
Mount the Micro Star transformer near a 110v, power outlet but leave transformer unplugged until it is needed (See Figure B). Select the end post closest to the outlet in order to connect to the transformer. You will need to run the low voltage wire down this post so plan accordingly. If you are using the white vinyl sleeves or other sleeves with your rail system, you can run the wire down inside the sleeve to keep it hidden and protected. Take care to run wire on a side where there is no hardware mounted. If you are not using sleeves, other arrangements will need to be made to conceal the wire. The transformers are available in 1amp and 5amp models.

**USE DC TRANSFORMER ONLY!**

**Find the Center of the Top Rail**
Use a square and a tape measure to mark the vertical center of the first post. For 36” systems, measure 35” from the deck surface and mark a horizontal line on the post at this height. Measure 41” from the deck for 42” systems. The intersection of these lines is the center point for your top rail (See Figure C). If installing a bottom rail, repeat at the desired lower rail height.

*SOUTHERN BUILDING CODES REQUIRE BOTTOM RAIL SPACING OF NO MORE THAN 2”.*
Drill Holes Through Posts for Wire
At the centers, drill a hole with a 1/4” drill bit 2/3 of the way through the post from both ends. It is important that these holes meet in the center of the post so care should be taken in locating the centers. Thread supplied jumpers through post and fittings.

Connect Rails with Jumpers
Beginning with the end post closest to the transformer, connect rails sequentially with the jumpers (See Figure D).

Install rails as they are connected according to the applicable RailEasy system installation instructions.

ATLANTIS RAIL CHECKS EACH LIGHT IN OUR SHOP TO BE SURE THAT IT IS FUNCTIONING ACCORDING TO SPECIFICATIONS. HOWEVER, IT IS A GOOD IDEA TO CHECK THE LIGHTS ON-SITE TO BE SURE THAT NO WIRING CAME LOOSE IN TRANSIT.

RED WIRES ARE ALWAYS POSITIVE (+) AND BLACK WIRES (SOMETIMES WHITE) ARE ALWAYS NEGATIVE (-). DO NOT EXCEED 5 AMPS FOR A POWER SOURCE. DO NOT USE AN AUTOMOTIVE, MARINE OR MOWER BATTERY AS THIS MAY DAMAGE THE WIRING. IF ANY ADDITIONAL WIRING AND CONNECTIONS ARE REQUIRED, WIRE USING A “PARALLEL” CIRCUIT. USING A “SERIES” CIRCUIT IS NOT RECOMMENDED.

Additional Components

Micro Star LED Post Cap - (S0985-0000)
The illuminated LED vinyl post cap includes 4 super bright white LED lights in each corner (See Figure E). It provides sufficient lighting for stairs and walkways. Cap fits over standard 4"x4" vinyl sleeves and is compatible with the RailEasy Sleeve and Micro Star transformers. Post cap arrives pre-wired for easy and quick installation. Fasteners included. Color: White.

Micro Star Specifications
The patented Micro Star series is a complete line of lighting options for railings, fencing, steps and many other indoor or outdoor applications. The Micro Star LED Lights are available in 12v and each draws only .02 amps. Each bulb has a life cycle of 18,000 hours.

Micro Star Product Specifications

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Dimensions</th>
<th>Fasteners</th>
<th>Notes</th>
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<tbody>
<tr>
<td>S0832-0001</td>
<td>Micro Star Transformer - 1amp</td>
<td>100-240Vac - 50/60HZ</td>
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<tr>
<td>S0832-0005</td>
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<td>12 Volt DC</td>
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<tr>
<td>S0985-0000</td>
<td>Micro Star LED Post Cap</td>
<td>4.03&quot; x 5.75&quot; x 2.13&quot;</td>
<td>Fasteners included</td>
<td>White Vinyl</td>
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