



Warning



Note

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. Being completely waterproof and encased in a type 316 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.

ATLANTIS RAIL Contact Information:

Atlantis Rail Systems

70 Armstrong Road

Plymouth, MA 02360

3900 Civic Center Drive

North Las Vegas, NV 89030

(800) 541-6829 or (508) 732-9191

(508) 732-9798

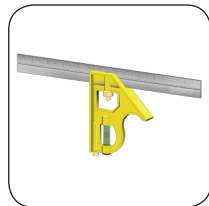
www.atlantisrail.com

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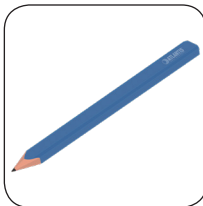
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Tools

Required & Recommended



Carpenter's Square



Pencil



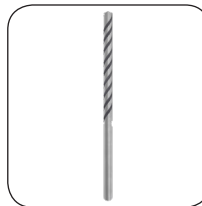
Gloves



Safety Glasses



Power Drill



13/32" Drill Bit



Tape Measure

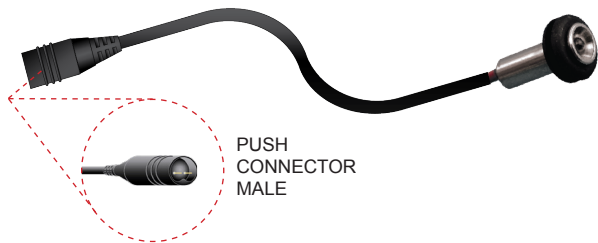
Tips for a Successful Installation

- 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



S0801-PC01

Micro Star LED Light with Push Connector (Male)



S0832-0001

Micro Star Transformer (1 amp)

S0825-TF160

Transformer (Screw Lugs) to Wiring Harness (1 amp)



S0832-0005

Micro Star Transformer (5 amps)

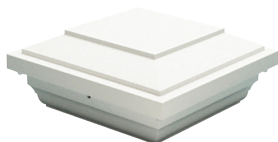
S0825-TW560

Transformer to Wiring Harness (5 amps)



S0825-JMPR-SC Micro Star Jumper (12")

Additional Components



S0985-0000

Micro Star LED Post Cap

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. You may need to drill an additional hole in the decking beneath this post to run the low-voltage wire to keep it hidden. The transformers are available in 1 amp and 5 amps models.



USE DC TRANSFORMER ONLY!

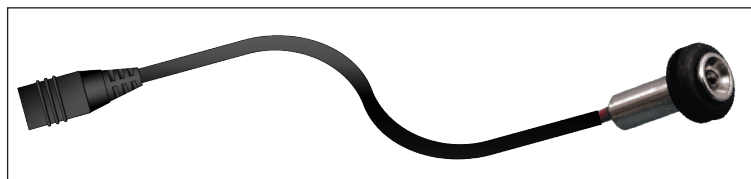


Figure A. Micro Star LED light with Push Connector (Male) .



Figure B. DC transformers are comprised of heavy-duty water resistant material.

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).

Drill Holes Through Posts for Wire

At the centers, drill a hole with a 13/32" 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 (S0825-JMPR-SC) through posts and fittings.

Connect Rails with Jumpers

Beginning with the end post closest to the transformer, connect rails sequentially with the screw connectors male / female (See Figure D).

Connect Micro Star LED Lights with Push Connectors

Atlantis Rail pre-installs Micro Star lights and wiring in the rails before shipping to a customer. If a connection comes undone reconnect the push connectors male / female (See Figure E).



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.

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



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.



12 VOLT DC POWER SOURCE ONLY. MICRO STAR LED LIGHTS ARE USED WITH DIRECT CURRENT TRANSFORMERS ONLY. USING AN ALTERNATING CURRENT TRANSFORMER OR A TRANSFORMER OVER 12 VOLTS WILL CANCEL ALL WARRANTY CLAIMS AND CAUSE THE LIGHTS TO BURN OUT PREMATURELY.

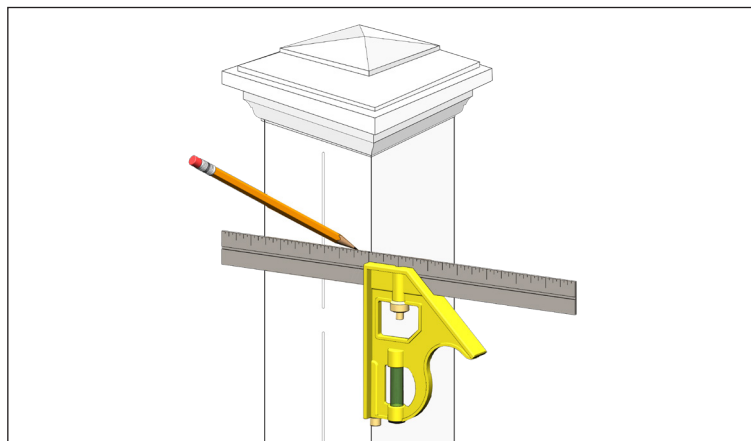


Figure C. Use a square and tape measure to mark the center of your posts.

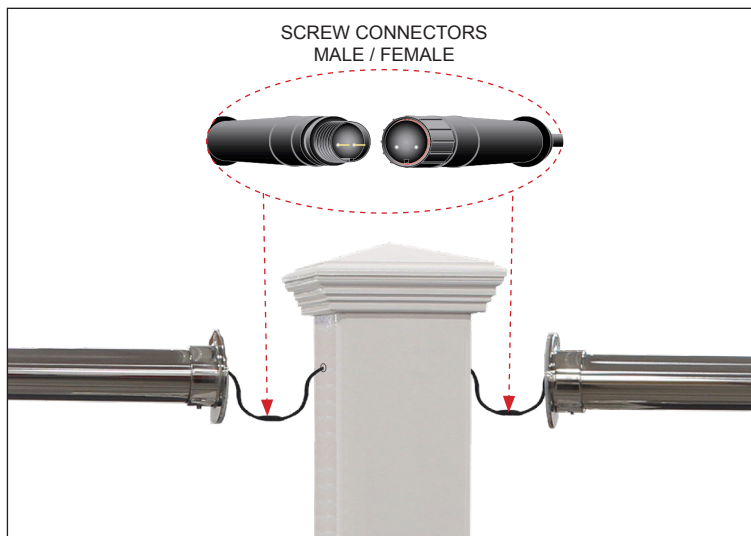


Figure D. Beginning with the end post closest to the transformer, connect rails sequentially with the male / female screw connectors.

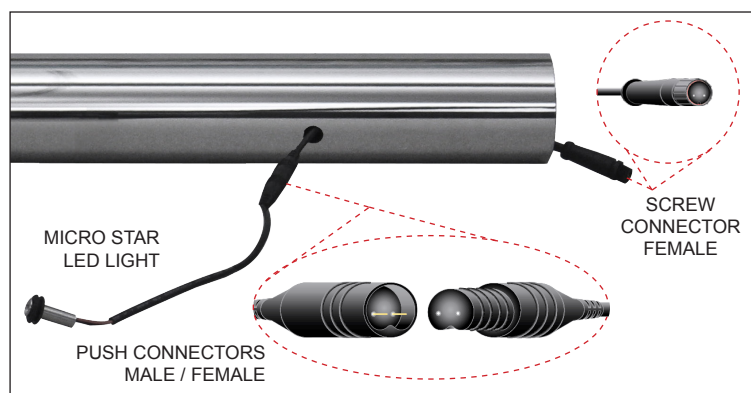


Figure E. Atlantis Rail pre-installs Micro Star lights and wiring in the rails before shipping to a customer.

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 F*). 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.



Figure F. Micro Star LED Post Cap (S0985-0000).

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.

Micro Star Product Specifications

Components

Product	Description	Dimensions	Fasteners	Notes
S0832-0001	Micro Star Transformer - 1 amp	100-240Vac - 50/60HZ	--	--
S0832-0005	Micro Star Transformer - 5 amps	100-240Vac - 50/60HZ	--	--
S0801-PC01	Micro Star LED Light with Push Connector	12 Volt DC	Push Connector (Male)	Color: White
S0985-0000	Micro Star LED Post Cap	4.03" x 5.75" x 2.13"	Fasteners included	White Vinyl
S0825-H048	Micro Star Wire Harness	4' Handrail	Screw Connectors (M/F) Push Connector (Female)	Factory pre-installed
S0825-H060	Micro Star Wire Harness	5' Handrail	Screw Connectors (M/F) Push Connector (Female)	Factory pre-installed
S0825-JMPR-SC	Micro Star Jumper	12"	Screw Connectors (M/F)	
S0825-TF160	Micro Star Transformer to Wiring Harness	66"	Screw Connector (Female)	1 amp
S0825-TW560	Micro Star Transformer to Wiring Harness	64"	Screw Connector (Female)	5 amps

IP61: Screw and Push Connectors are protected from total dust ingress and from condensation.