

# Installation Instructions

## N Scale Modern Lamp Posts

Model No. S150

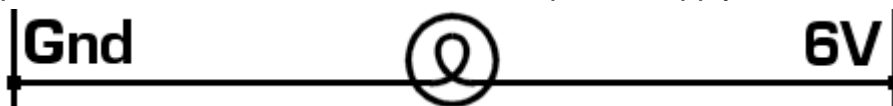
Congratulations on your lamp post purchase! Installing these scenery detail items will greatly increase the realism of your layout. Properly installed, they will last many years, providing countless hours of enjoyment.

Some of the bulb shades on these lamp posts have come loose during shipping or handling. If that occurs, a drop of superglue will fix the problem.

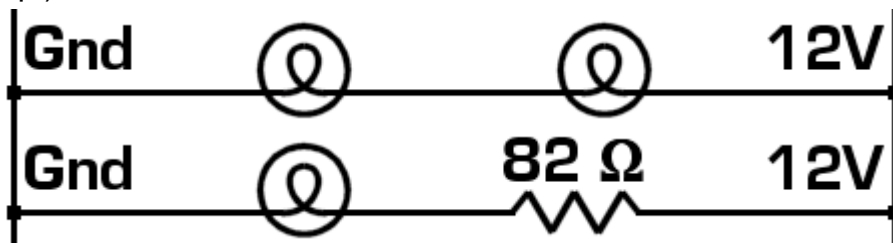
Most other ground-based scenery, e.g., painting streets, installing curbs and sidewalks, etc., should be done prior to installing your lamp posts. An exception to this rule would be for grass, which could reasonably be expected to get onto the lamp post bases on occasion.

To install the lamp posts and connect them to power:

- At the location where you want to install a lamp post, drill a 1/8" (3.2 mm) **vertical** hole through your layout substrate. This will yield a snug fit for the lamp post extension below the base, but requires a *precisely vertical* hole to insure the lamp post is not visibly leaning. If you want a little more room to be able to adjust the lamp posts to insure they are standing straight, you can use a 9/64" (3.6 mm) or 5/32" (4 mm) drill instead, and glue the lamp post in place. A 3/16" (4.7 mm) bit could also be used, but you would need a lot more glue.
- Strip the insulation from the ends of the lamp post wires. Remove enough insulation so you can make a good connection, but not so much that you cause shorting problems.
- If you are gluing the lamp posts in place, apply some glue to the lamp post extension below the base.
- Feed the wires through the mounting hole in your layout, and press the lamp post base down into place. Hold the post until the glue has set, if necessary.
- Connect the lamp post wires to your lighting power supply:
  - For 6V operation, connect the leads across the power supply rails.



- For 12V operation, either connect two lamps in series, or each lamp in series with an 82 ohm 1/2W resistor, between the power supply rails. (The resistor can be on either side of the lamp.)



Copyright © 2013 by Model City Railroad. All rights reserved.



**RAIL**  **ROAD**

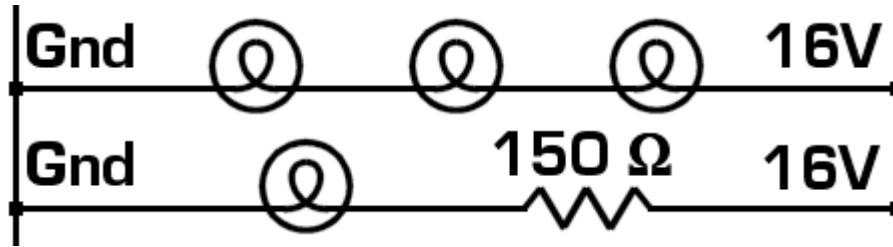
<http://ModelCityRailroad.com>

# Installation Instructions

## N Scale Modern Lamp Posts

Model No. S150

- For 16V operation, either connect three lamps in series, or each lamp in series with a 150 ohm 1/2W resistor, between the power supply rails. (The resistor can be on either side of the lamp.)



- For 18V operation, connecting three lamps in series (as shown above) is the recommended wiring configuration.
- Turn on your power supply and verify the lamps are working. If any do not come on, check for loose connections, poor solder joints, etc.

Once the lamps have been connected and tested, dim the room lights and enjoy your new street lighting!

Note that if you use resistors to drop the operating voltage for the lamps, a significant amount of the power used in your lighting circuit (50%-66%) will be dissipated in the resistors. The advantage of the resistor-per-lamp configuration is that failure of one bulb will only darken one lamp: If one bulb fails in a series lamp configuration, two or three lamps will be dark, and fixing the problem will require examining all of the lamps in the darkened chain.

Copyright © 2013 by Model City Railroad. All rights reserved.



<http://ModelCityRailroad.com>