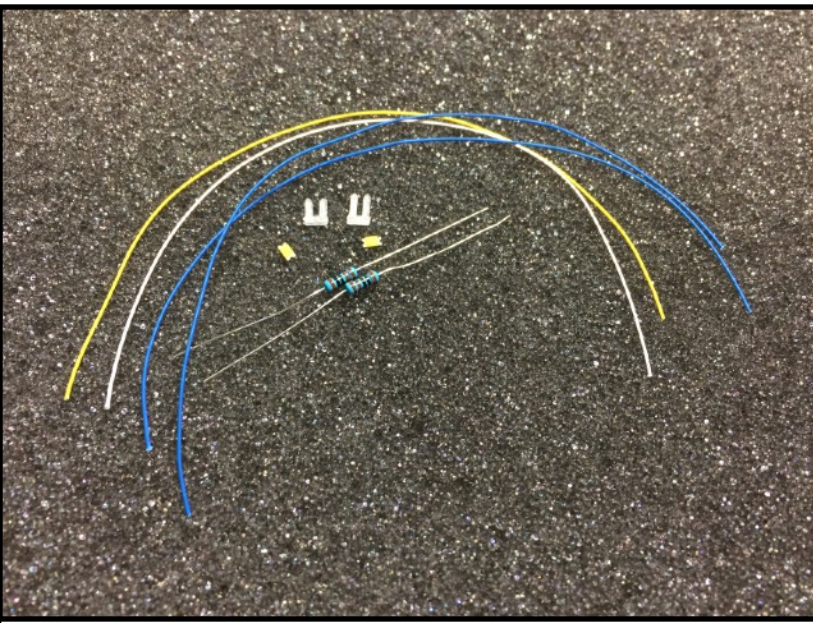
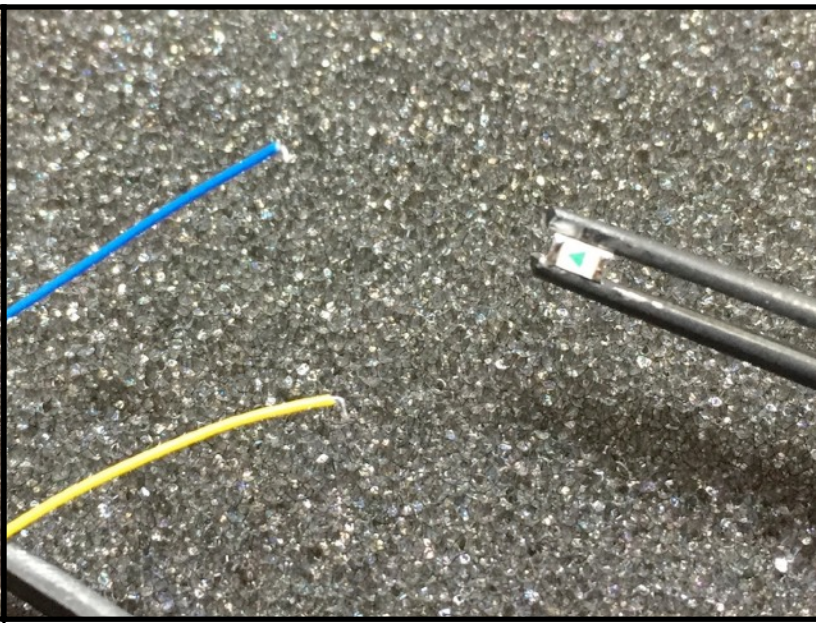


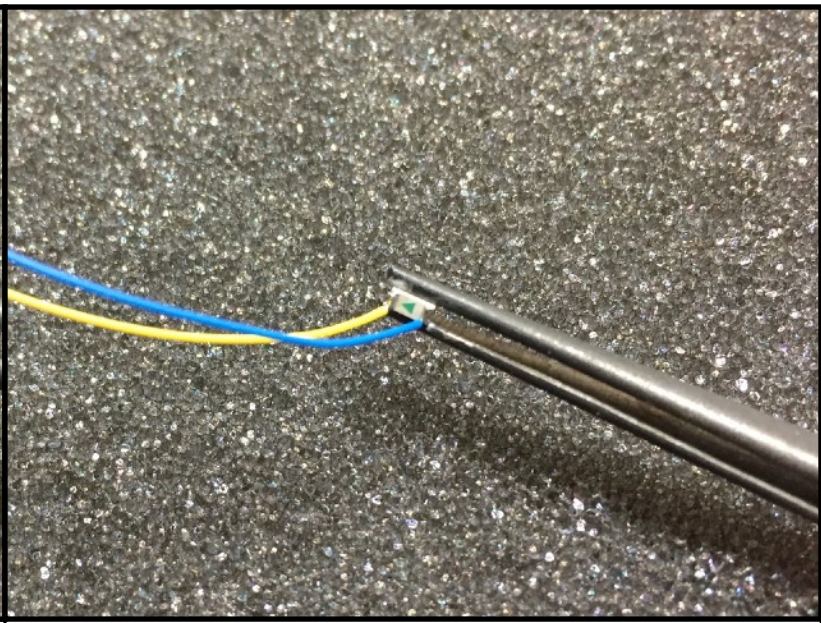
Scale Sound Systems LED Conversion Assembly/Installation Guide



Here are the parts you receive in the LED Conversion Kit. Not shown is the spare 1206 LED and heat shrink tubing pieces that are included.



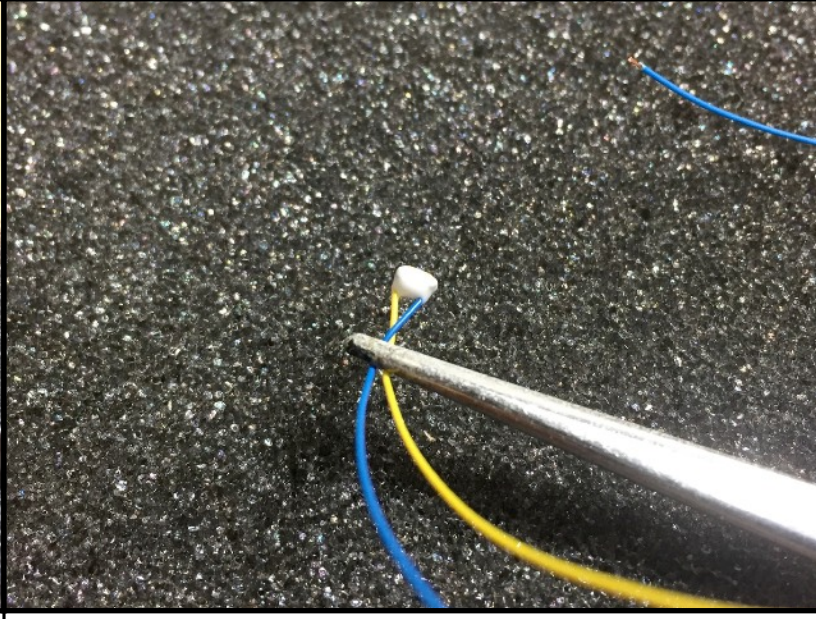
Strip the insulation a 1/6" from the wires and tin with solder. Bend at an L-shaped 90° angle. Tin the pads of the 1206 LEDs as well.



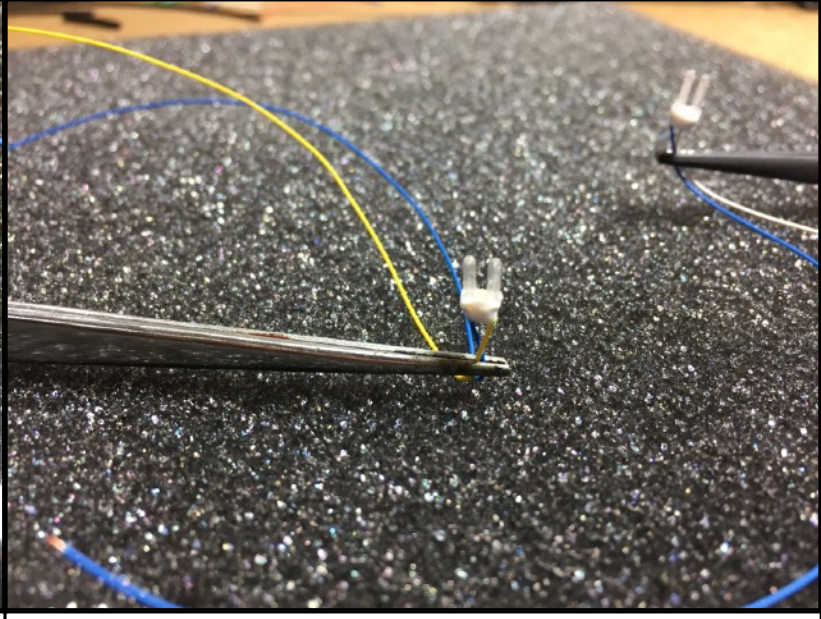
Touch the tip of the iron to the edge of the LED solder pad and place the L-shaped tined wire on it - remove the iron. The arrow points to the cathode (negative). I use two AA batteries in a holder to test my LEDs and now is a good time to test.



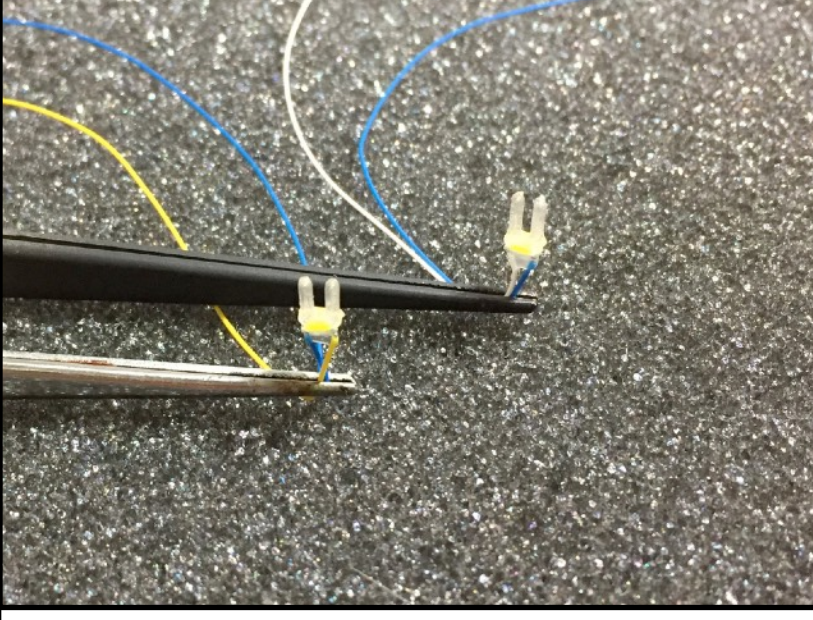
I use Micro Scale Kristal Klear to glue the LED lightpipe lens to the LED. Canopy glue would also work. Avoid using CA/ACC (super glue).



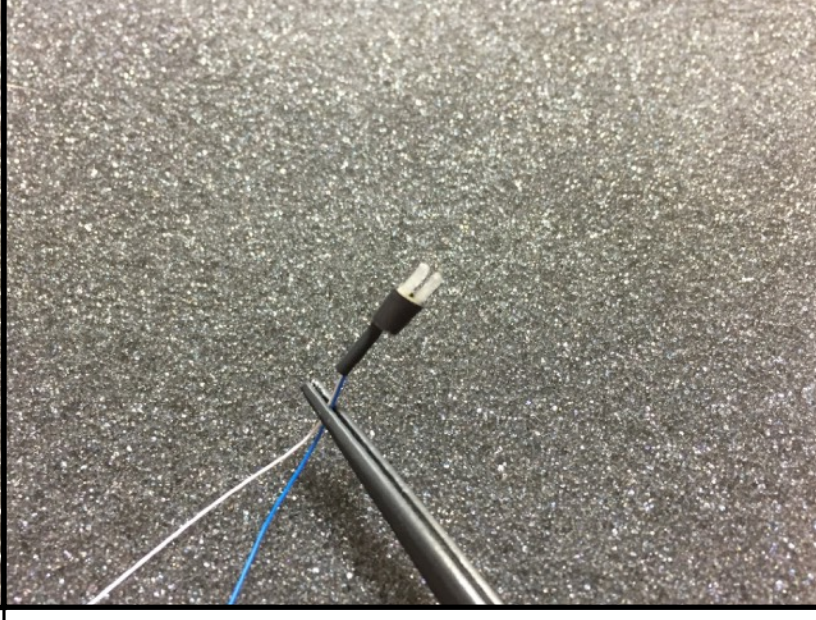
Using a tooth pick, spread Kristal Klear around the edges and all over the back of the LED, solder joints and onto the wire. This is important, as it protects the delicate solder pads & joint and provides strain relief.



Then, apply some Kristal Klear to the top of the LED and place the lightpipe lens on top, centered on the LED. Set aside to dry.



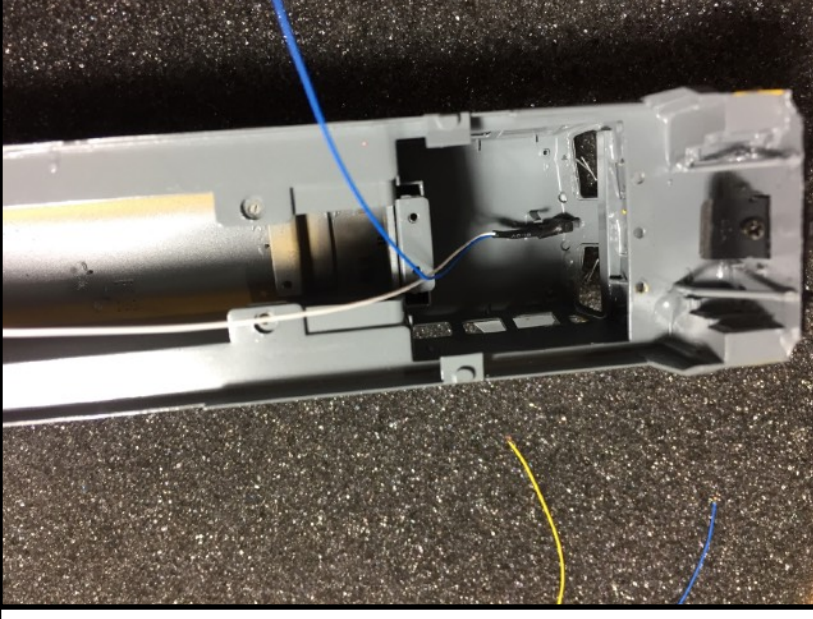
When the adhesive is dry, it will be clear and is ready to install. Battery test the LEDs once more for good measure.



Slide a piece of the large heat shrink tubing down the wires, over the LED and just beyond the lightpipe lens pad. Slide a piece of the smaller heat shrink tubing down the wires into the opening of the larger piece.



Using a *clean* soldering iron, place the tip near the heat shrink and starting at the top, use a twisting motion to rotate the assembly so the iron touches all sides of the heat shrink, working the iron down to the wires. *Do not use a heat gun.* Battery test the LEDs yet again.



Insert the whole assembly into the rear of the headlight openings. If the lenses poke out of the headlight too much, simply adjust back. The heat shrink provides strength and blocks out light bleed. Often times, the fit is tight enough that you're now finished. If the fit is loose, use a little Kristal Klear to adhere the assembly into the shell.



If you do have unwanted light bleed in the cab/shell from the gap between the LED assembly and the shell, use some black Liquid Tape to seal the joint. I use a micro brush to apply this. Black paint can also work, but usually requires multiple applications.



And now we test with the batteries one final time. Check for unwanted light leakage and overall appearance. These are looking good!