

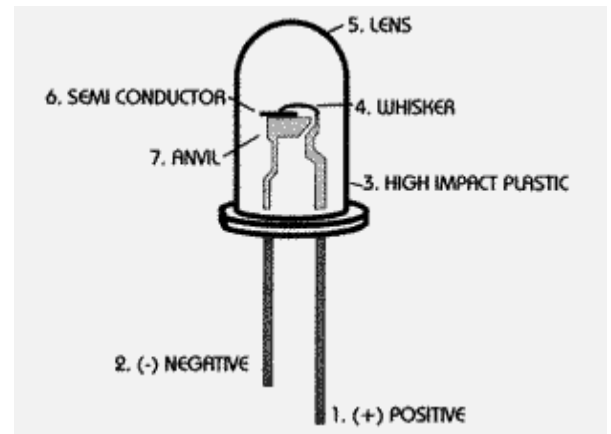
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General Led Diagram



(The Invaders UFO Lighting Kit)



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INSTRUCTIONS VER 1

OK let's get started, the main center engine area will need to cut out to support the new lens part. You want to leave a small ledge 3/16" of the original engine grid to rest the new lens part on, this will be mounted on the inside of the main engine chamber. The five outer domes will also need to be drilled out at 5 mm to support the green LEDs. The green LEDs will need no inline resistor they are already pre-resisted. (NOTE) The green LEDs will need to be bent at 90 degrees to save as much room as possible. After pre-bending all the green LEDs they can be mounted in the 5 mm holes you already pre-drilled for the domes. When mounting the LED you want to test them with the green dome lens to make sure that they don't get pushed too deep in the hole making them bottom out on the lens cover. Use a small amount of hot glue on the LED for permanent mounting. It's a good idea to black out the LEDs to help prevent light leaks. This is also the perfect time to get the main engine lower lens & LED support bracket built. Prebuild the clear acrylic support first, glue together & let dry. Mount the lower lens with the bumpy side down towards the bottom of the model. Use either white glue or clear silicone to mount the lens, let it fully dry. After fully dry mount the LED support on top of the lens, look for the cross pattern for alignment. The dome lights can be either tied in to direct power or can be hooked up to the master circuit board using **pinouts 0,1,2,4,7**, we will go over the circuit board layout later along the build. After mounting lens and LED support test all the dome lights for operation. Carefully route the dome lead wires in the center of each landing leg mounting tab, you will need to make a small "S" turn in the wire to prevent kinking of the lead. Use a small amount of hot glue to hold the wires in the center. You can now mount the upper half of the model to the base plate.

The next step is mounting the five engine leds. These leds will require an inline resistor on the positive side of the led leads. The leds will also need to be bent a 90-degree angle for fitting reasons. The engine lights are powered direct for the circuit board using **pinouts 3,5,9,10,11**, we will go over the circuit board layout later along the build. Once you have pre-fabricated the leds with resistor test each led for operation, carefully bend each led at a 90-degree angle & mount to led support bracket with a small amount of hot glue. Run wires long out of the top of the model, these will be cut down & soldered to the circuit board in the final assembly.

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Invaders UFO wiring diagram:

