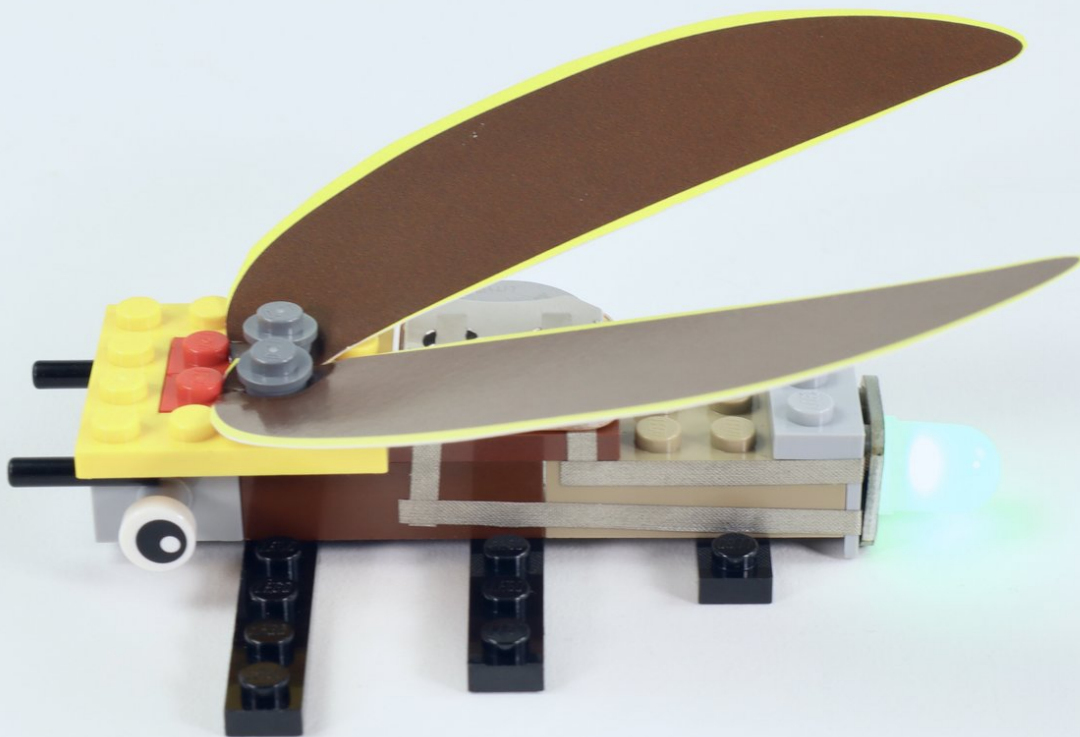




# Hole Punch LED Lighting Bug

Use this printable guide/template, some common LEGO pieces and our Crazy Circuits components to create a LEGO Lighting bug that really lights up!

Written By: Andy Wallus



# INTRODUCTION

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## TOOLS:

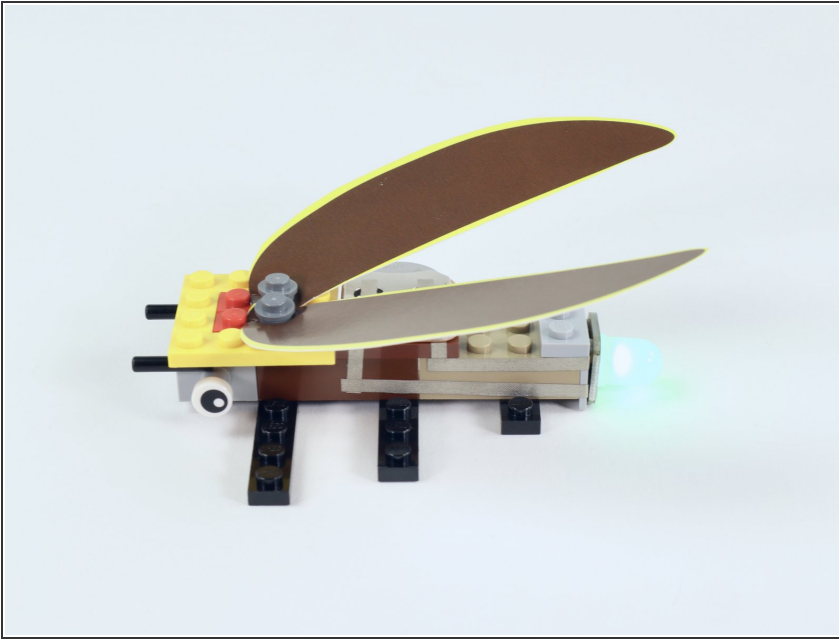
- [Scissors](#) (1)
- [Hole Punch](#) (1)



## PARTS:

- [Crazy Circuits LED Chip](#) (1)
- [Crazy Circuits Coin Cell Battery Holder](#) (1)
- [CR2032 Battery](#) (1)
- [Maker Tape, 1/4" Wide](#) (1)
- [LEGO 1x1 Round Tile](#) (2)
- [LEGO Round Tile with Eye](#) (2)
- [LEGO 1x2 Plate](#) (2)
- [1x4 LEGO plate \(3710\)](#) (1)
- [LEGO 1x8 Plate](#) (1)
- [LEGO 1x10 Plate](#) (1)
- [LEGO 2x6 Plate](#) (1)
- [LEGO 2x4 Brick](#) (2)
- [LEGO 2x2 Brick with pins and axelhole](#) (1)
- [LEGO 4x4 Plate with 2x2 open center](#) (1)
- [LEGO 1x2/2x2 Bracket Plate](#) (1)
- [LEGO 1x2 Plate with Handles](#) (1)
- [Printable Template](#) (1)

## Step 1 — Hole Punch LED Lighting Bug



- **Print out guide/wing template and gather the remainder of the listed materials.**
- **Use the illustrated build guide to help you assemble the lighting bug itself.** Wait to add wings until the circuitry has been added.
- Follow the circuit assembly diagram to help you **measure, cut, peel and stick the Maker Tape paths in place** where indicated on the LEGO build.
- **Press the circuit components into place** using the orientation shown in the circuit diagram. **Add battery** to turn the circuit on.
- **Cut out wings and use a hole punch to remove the holes on them.** Afterward, use the two 1x1 round tiles to secure the wings to the front part of the bug body.