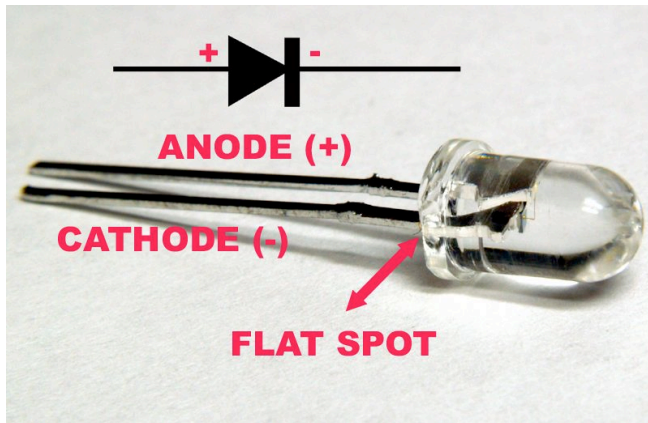
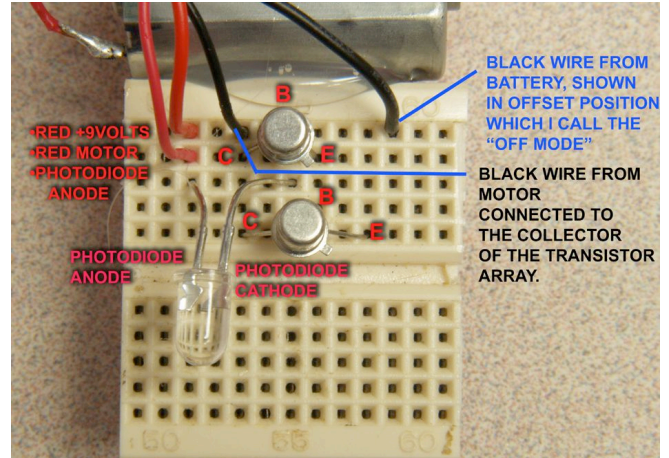
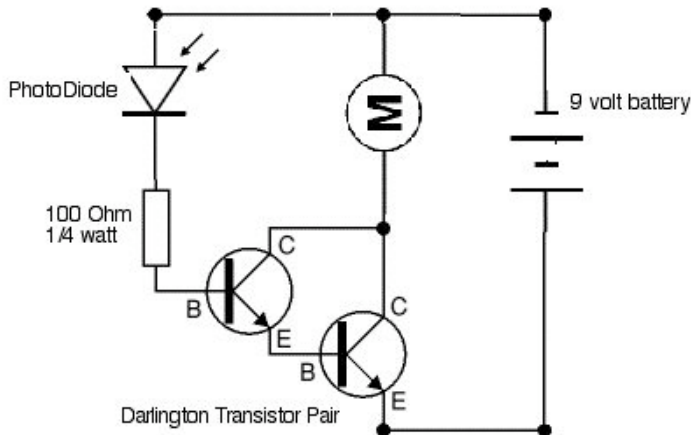


# Roller-Bot® III Student Discovery Kit Assembly Guide

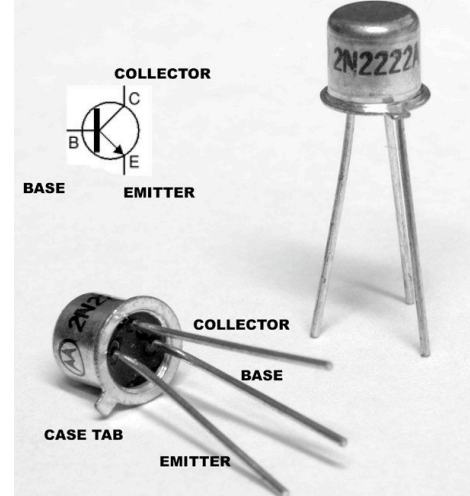
[www.roller-bot.com](http://www.roller-bot.com)

The Roller-Bot III kit includes everything except a flashlight for the construction and operation of the Roller-Bot III. The transistorized light activated circuit demonstrated here is very simple and is one of many possible solutions in motor control. The solderless breadboard also allows for a variety of methods for wiring solution. This is one example that achieves the solution without the use of additional wire jumpers.

## TRANSISTOR TERMINAL IDENTIFICATION



## TRANSISTOR TERMINAL IDENTIFICATION



## Roller-Bot III Parts List

- Shur-Line 3" touch up paint roller
- #64 Postal rubber band
- solderless breadboard section about 1.5" x 1.25"
- spring battery holder or magnet for holding battery
- 3/4" binder clip for tail hook (optional)
- 2-each 2N2222 NPN transistors
- 1-each IR Photodiode
- 1- 150~200 ohm 1/4 watt resistor
- DC motor 6v – 9v operation
- 9v- battery
- 9v- battery electrical snap
- fragments of 22-ga wire
- Flashlight with a tight beam spot

