

# COMPLETE BEAMBOT CIRCUITS - PUMMER CIRCUITS

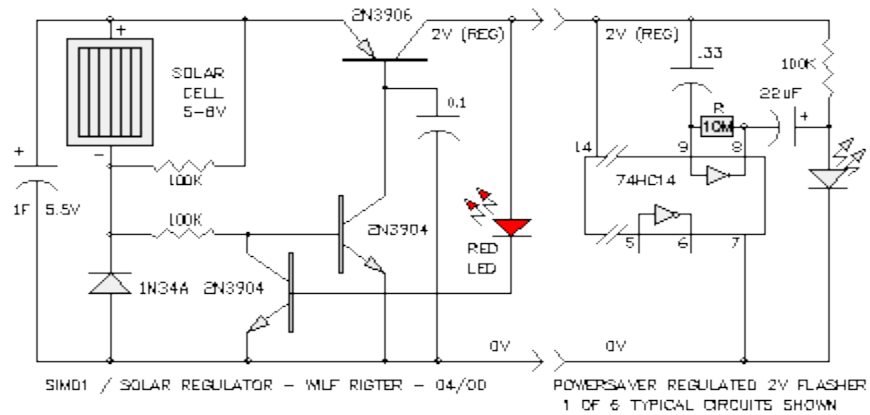
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For the time being, I've listed circuits for five classes of BEAMbots.

- Pummer circuits
- Head circuits
- Solarroller circuits
- Photopopper circuits
- Walker circuits

## **BEAM pummer circuits**

Wilf posted a neat, very efficient "pummer" circuit powered by one of his versions of a nocturnal solar engine (in particular, the SIMD1 / Solar Regulator):



Here's Wilf's quick description of his pummer (the small bit of circuitry in the right part of the above diagram):

The PowerSaver Flasher uses capacitive output coupling to produce brighter shorter flashes and has a much lower average current drain than standard bicore or 74HC14 flashers. The PS Flasher with one LED circuit (2LEDs) runs all night from a 1F capacitor charged to 5.5V. Up to 12 LEDs can be controlled with one 74HC14 flasher and probably would run for 2 hours from a full charge. Use a range of timing resistors between 1M and 4.7M for each oscillator to give a random light show appearance.

Source: [http://www.solarbotics.net/library/circuits/bot\\_pummer.html](http://www.solarbotics.net/library/circuits/bot_pummer.html)