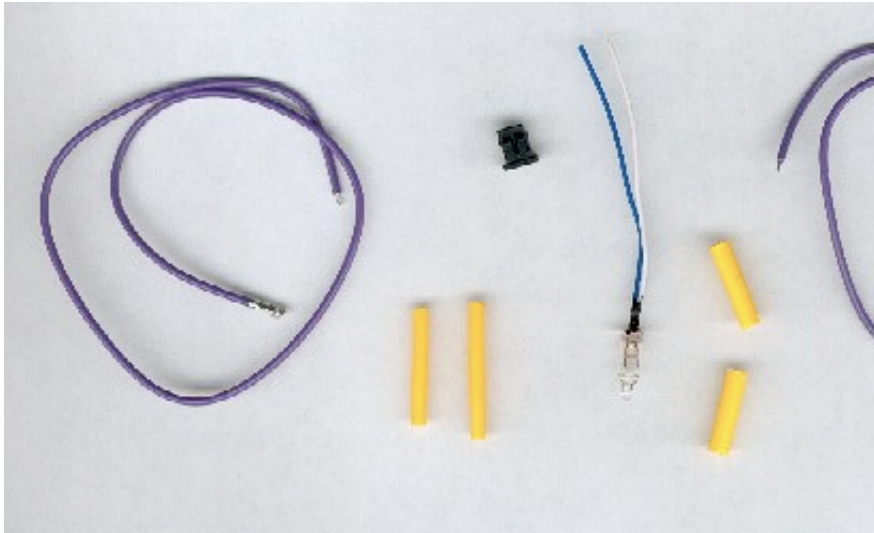


# Wiring a Light Bulb



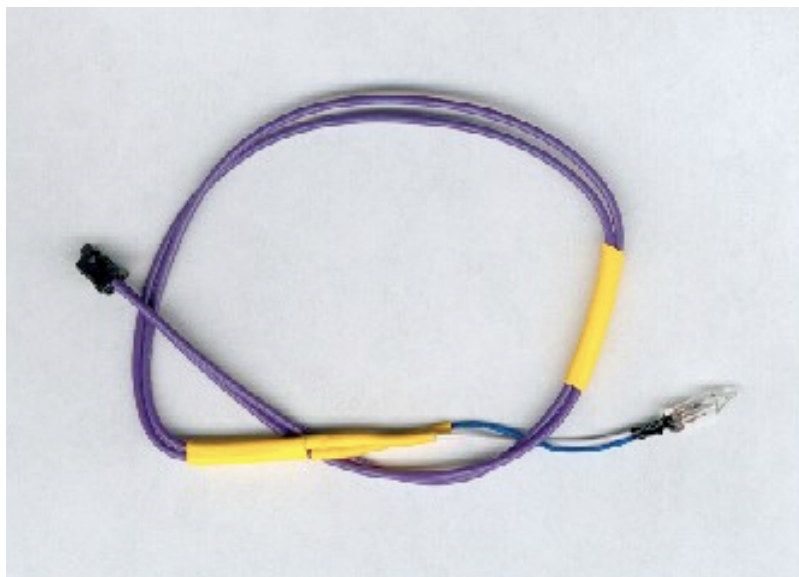
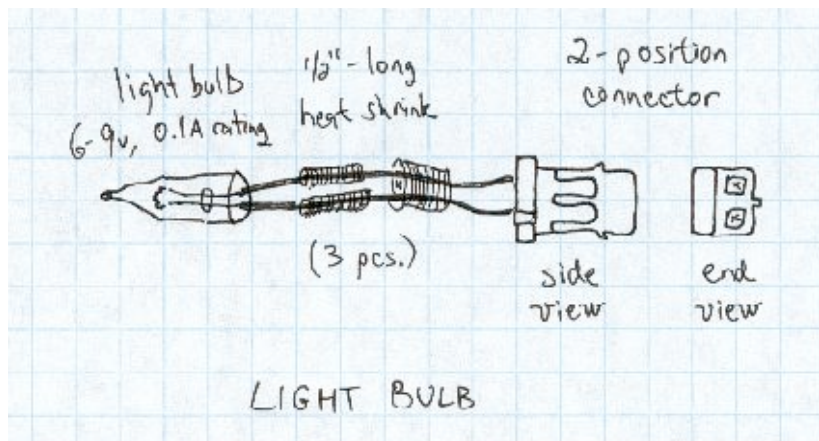
## Parts Required:

- **Light bulb.** This should be rated for 4 to 6v and up to 100 mA. The one shown below has wires already attached.
- **One 2-position “DF3” plug for Cricket motor port.**
- **Two wires with pre-terminated “DF3” connector.**
- **Two pieces 1/16” heat shrink.** This thinner heat shrink covers the splice between the bulb wire and the purple “DF3” wire.
- **One or two pieces 3/32” heat shrink.** This heat shrink holds the pair of bulb wires together.

## Wiring Diagram:

Clip the bulb leads short, then solder to DF3 cables.

The bulb is wired just like a motor and plugs into the Cricket’s motor outputs.



## Finished Assembly:

Here’s how it looks when it’s done.

To try it out, plug into a port A motor jack on the Cricket, then type:

```
a, on
```

into the Cricket Logo command center. The lamp should light!

To make it flash, try this:

```
a, repeat 10 [onfor 5 wait 5]
```

You can also adjust the brightness with the setpower command; e.g.: setpower 7