

Components

LED

(Light Emitting Diode)



What it Does:

Emits light when a small current is passed through it. (only in one direction)

Identifying:

Looks like a mini light bulb.

No. of Leads:

2 (one longer, this one connects to positive)

Things to watch out for:

- Will only work in one direction
- Requires a current limiting resistor

More Details:

<http://ardx.org/LED>

Resistors



What it Does:

Restricts the amount of current that can flow through a circuit.

Identifying:

Cylinder with wires extending from either end. The value is displayed using a color coding system (for details see next page)

No. of Leads:

2

Things to watch out for:

- Easy to grab the wrong value (double check the colors before using)

More Details:

<http://ardx.org/RESI>

Hobby Servo



What it Does:

Takes a timed pulse and converts it into an angular position of the output shaft.

Identifying:

A plastic box with 3 wires coming out one side and a shaft with a plastic horn out the top.

No. of Leads:

3

Things to watch out for:

- The plug is not polarized so make sure it is plugged in the right way.

More Details:

<http://ardx.org/SERV>

Piezo Element



What it Does:

A pulse of current will cause it to click. A stream of pulses will cause it to emit a tone.

Identifying:

In this kit it comes in a little black barrel, but sometimes they are just a gold disc.

No. of Leads:

2

Things to watch out for:

- Difficult to misuse.

More Details:

<http://ardx.org/PIEZ>