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## Kitronik Electronic Project Kits Overview

Thank you for your interest in our electronic project kits.

All of our [project kits](#) are designed, produced, tested, and individually packed in-house to not only fulfil the National Curriculum programmes of study for D&T, but to also serve the keen hobbyists and makers at home. The level of difficulty varies from kit to kit. Each kit is pitched at a certain Key Stage group: from Key Stage 2 through to Key Stage 4. From our most basic [Squeezy Torch Kit](#) that requires no soldering, to kits that include ICs and contain more components, there is a kit for everyone.

See below for an outline of the different ranges of electronic kits that we supply, followed by project examples.

### Easy Build Kits

Our range of [Easy Build Kits](#) include LED Torches, USB Lights, a Rear Bike Light, Steady Hand Games and more. These kits all include up to ten individual parts, making them a good introduction to Electronics.

### Intermediate Project Kits

[Intermediate Kits](#) are slightly more complex and normally include an IC. This selection of project kits include a range of different amplifiers – some pre-built and some that require a greater amount soldering and assembly – an FM Radio, Solar Light, a Record Playback Kit and more.

### PIC Kits and PICAXE

Our third variety of project kits includes [PIC and PICAXE projects](#): Pre-programmed Dice, Thermometer Project Kit, Game and Xylophone Kits, PICAXE Kits, chips and cables, and much more.



## Electronic Project Kits and Project Examples

### Electronic project kits

#### Easy Build Kit example: Vibrobug:

Once built, a Miniature 3V Motor vibrates the whole body of the pre-cut Perspex Vibrobug, causing it to scurry across tables.

#### Kit includes:

- A pre-cut piece of Perspex containing the bug parts
- 1 x Miniature 3V Vibrating Motor
- 1 x Coin Cell Power Board Kit
- 1 x Set of Fixings
- 1 x Coin Cell

#### Intermediate Kit example: MP3 Stereo Amplifier Kit:

#### Kit includes:

- 1 x TDA2822M Audio Amplifier IC
- 1 x 8 Pin IC Holder
- 2 x 10K ohm Resistors
- 2 x 4.7ohm Resistors
- 2 x 100K ohm Resistors
- 2 x 100nF Capacitors, Ceramic Disc
- 2 x 470uF Capacitors, Electrolytic
- 2 x 100uF Capacitors, Electrolytic
- 1 x 10uF Capacitor, Electrolytic
- 1 x 3.5mm Stereo Jack Cable
- 2 x Speakers (8ohm, 66mm) and Connecting Wire
- 1 x Stereo Amplifier PCB

#### Pre-programmed PIC Kit example: Thermometer Project Kit:

#### Kits includes:

- 1 x PP3 Clip Lead
- 1 x 3AA Battery Holder
- 8 x 5mm Red LEDs
- 4 x 33ohm Resistors
- 1 x 2.2K ohm Resistor
- 1 x Thermistor
- 1 x PIC 12F675 Pre-programmed with Thermometer Code
- 1 x 8 Pin IC Holder
- 1 x Thermometer PCB

### Worked examples of these kits

