

Easy Electric Circuits

THE ESSENTIAL CIRCUITRY KIT!

Explore the science of electricity in a fun, hands-on way by building 20 electric circuits and motorized devices. Conduct experiments to learn about many electrical components and physical science principles firsthand. From circuit to circuit, you can see for yourself the different effects the electric current has on the motor and the LED light. The innovative building system allows you to easily piece together the circuits by sliding the connectors together, and then easily sliding them apart when it's time to build the next circuit. After you have learned the basics of circuits, you can build five fun, motorized models that perform cool functions!

- ▶ Learn about circuits, conductivity, voltage, current, motors, LEDs, switches, batteries, and more
- ▶ Conduct 20 experiments with electric circuits and motorized mechanical devices

TOPICS COVERED INCLUDE...

Electricity
Electrical current
Electronics
Electric circuits
Polarity
Circuit diagrams
Motors
Batteries
LEDs
Resistors
Switches
Generators

Series circuits
Parallel circuits
Short circuits
Voltage
Current
Switches
Generators
Conductors
Insulators
Electrical devices
Electric cars

32-page,
full-color
manual

Contents



→ More than 60 building pieces including 2 battery holders, motor, LED, switch, resistor, 4 wires, 4 gears, 5 axles, 3 frames, 6 rods, 26 connectors, and more.

→ You will also need: 2 AA batteries (1.5 volt, type LR06) and various metallic and nonmetallic objects from around your home for conductivity testing



15 Circuit EXPERIMENTS!



Motor with batteries in parallel



LED with batteries in series



LED with switch



Conductivity tests



Motor and LED in parallel



Two circuits in one

& MANY MORE!

5 MOTORIZED MODELS!



Movie zoetrope



Walking lion



Flapping bird



Electric car



Optical illusions

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Warning: Not suitable for children under 3 years.
 Choking hazard — small parts may be swallowed or inhaled. Strangulation hazard — long cords may become wrapped around the neck.
 Warning: This toy is only intended for use by children over the age of 8 years, due to accessible electronic components. Instructions for parents or care givers are included and shall be followed.



Keep the packaging and instructions as they contain important information.

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Do not mix old and new batteries. Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.



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