CIRCUIT BLOX™
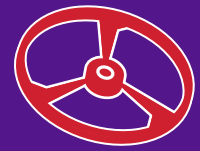
FAN LAUNCH CHALLENGE INSTRUCTIONS

4 PROJECTS

COMPONENT LIST & FAN ASSEMBLY


x1
x1
x1
x1
x1
x1
x3
x3
x3
x1
x1

Base Grid (not shown) x1
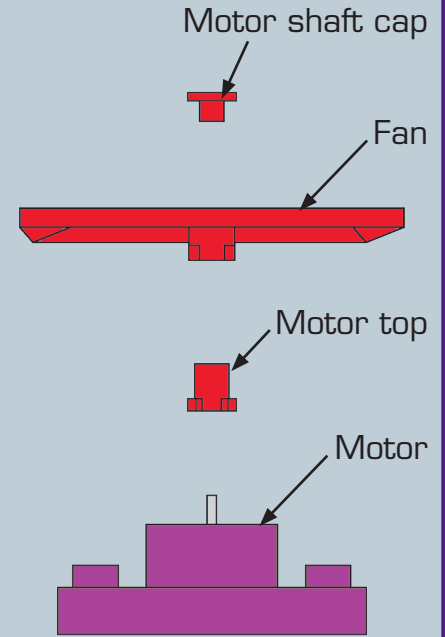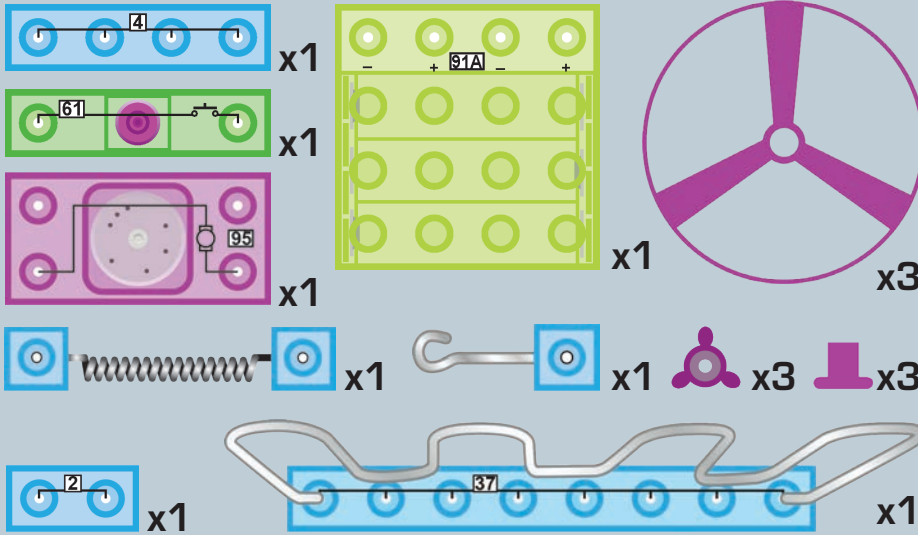
Note:
Do not mix old and new batteries.
Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.

Motor shaft cap
Fan
Motor top
Motor

PROJECT 1 - FAN SPIN CHALLENGE

Build the circuit shown. Place the fan blade (60) on the motor (95). Hold the hook with the circular end around the wire maze and try to move the hook through the wire maze without it touching the wire. If you touch the wire maze, the motor will spin. See if you can get the hook through the maze without the motor spinning! Note: The motor (95) has a positive (+) and negative (–) polarity. Make sure the motor (95) is in the same direction shown in the circuit diagram (note the orientation of the black lines printed on the motor). The fan will NOT launch in this project (see next project).
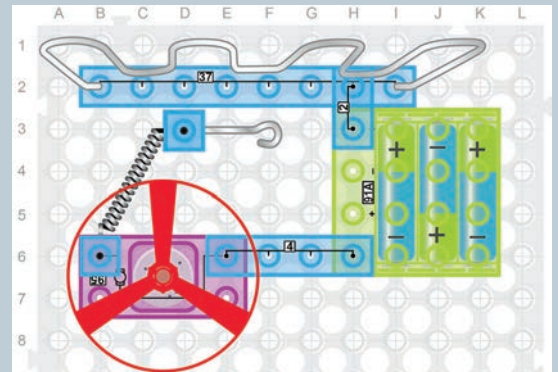

PROJECT 2 - FAN LAUNCH CHALLENGE

Build the circuit shown. Place the fan blade (60) on the motor (95). Hold the hook with the circular end around the wire maze and try to move the hook through the wire maze without it touching the wire. If you touch the wire maze, the motor will spin. If the hook touches the wire maze for too long, then the fan will launch off the motor (95). See if you can get the hook through the maze without the fan launching! Note: The motor (95) has a positive (+) and negative (–) polarity. Make sure the motor (95) is in the same direction shown in the circuit diagram (note the orientation of the black lines printed on the motor). Also, remove the motor shaft cap if it was installed previously, as it will prevent the fan (60) from launching.
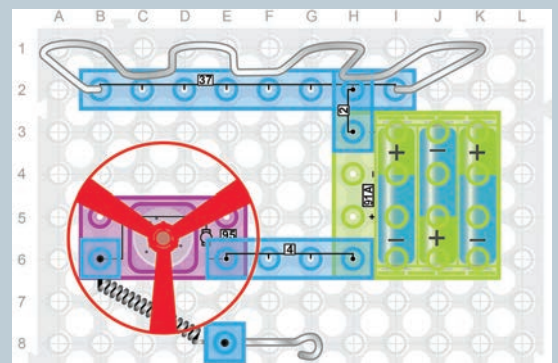
PROJECT 3 - SPIN THE FAN

Build the circuit shown on the right and place the fan blade (60) on the motor (95). Press and hold down the Press Switch (61) and the motor (95) will start spinning the fan. Release the Press Switch (61) and the motor (95) will stop spinning. Note: The motor (95) has a positive (+) and negative (–) polarity. Make sure the motor (95) is in the same direction shown in the circuit diagram (note the orientation of the black lines printed on the motor). The fan will NOT launch in this project (see next project).
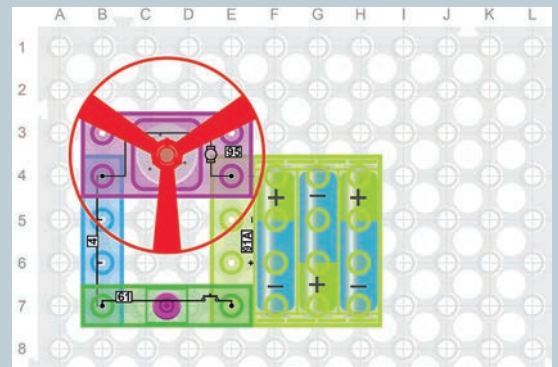
PROJECT 4 - LAUNCH THE FLYING SAUCER

Build the circuit shown on the right and place the fan blade (60) on the motor (95). Press and hold down the Press Switch (61) and the motor (95) will start spinning the fan. Release the Press Switch (61) and the motor (95) will stop spinning and the fan will launch. To launch the fan you may need to give the fan a tap from underneath with your fingernail. Note: The motor (95) has a positive (+) and negative (–) polarity. Make sure the motor (95) is in the same direction shown in the circuit diagram (note the orientation of the black lines printed on the motor). Also, remove the motor shaft cap if it was installed previously, as it will prevent the fan (60) from launching.
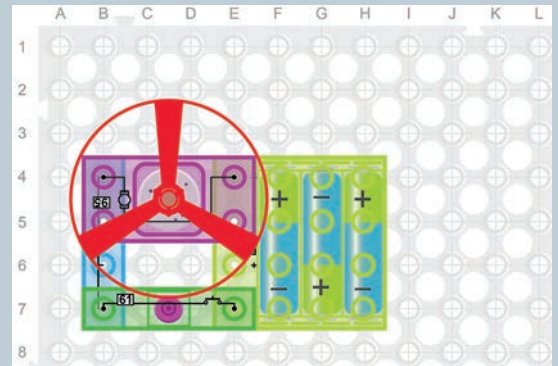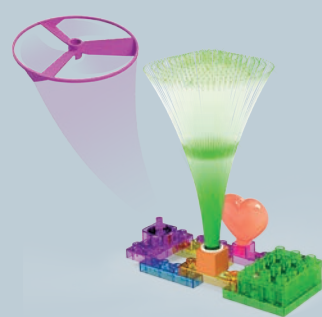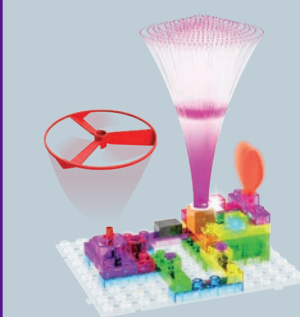
OTHER CIRCUIT BLOX® PRODUCTS

Burp N Fart Machine
10 hilarious sounds, including burp and fart sounds that are so real, you'll be holding your nose! 6 pieces, including a speaker, sound module, and more!
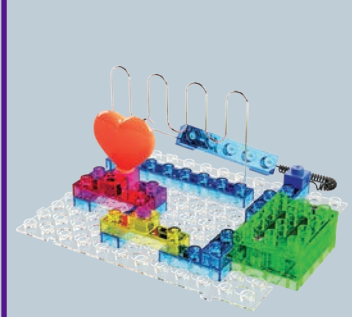
4 Projects
10 pieces, including a push-button switch, fiber optic tree, color-changing LED, heart LED, motor, fan, and more!

59 Projects
22 pieces, including three types of switches, fiber optic tree, bi-directional and color-changing LEDs, heart LED, motor, fan, buzzer, and more!
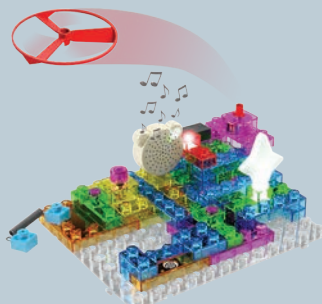
72 Projects
35 pieces, including a maze, hand crank generator, three types of switches, bi-directional, star, and heart LEDs, lamp, buzzer, and more!
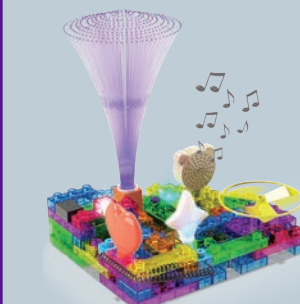
115 Projects
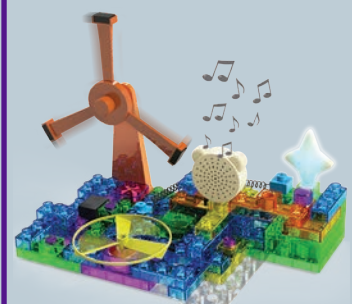37 pieces, including a motor, 3 fans, sound module, speaker, four types of switches, heart LED, lamp,and more!

120 Projects
46 pieces, including a motor, 3 fans, sound and FM radio modules, speaker, four types of switches, star LED, lamp,and more!

395 Projects
68 pieces, including a motor, 3 fans, sound and FM radio modules, speaker, resistors, capacitors, and transistor, heart and star LEDs, and more!

800 Projects
78 pieces, including a motor, 3 fans, inductor coil, magnet spinner, sound module, resistors, capacitors, and transistors, heart and star LEDs, and more!