4 PROJECTS

COMPONENT LIST & FAN ASSEMBLY

x1
x1
x1
x1
x1

x1

x1 x1

x1

x1

Fan Assembly

- Motor shaft cap
- Fan
- Motor top
- Motor
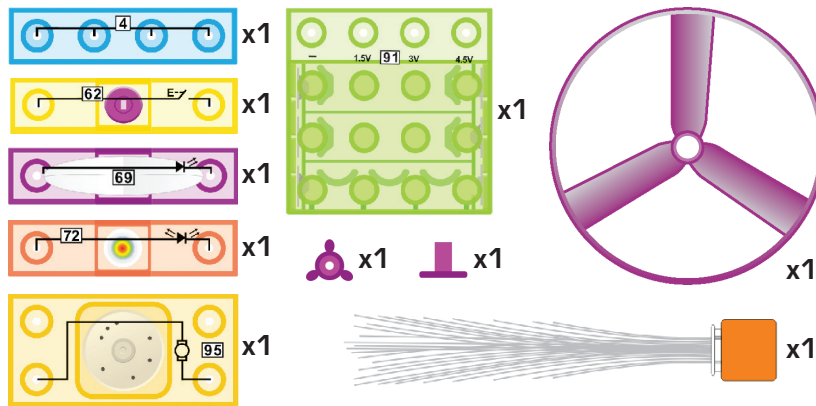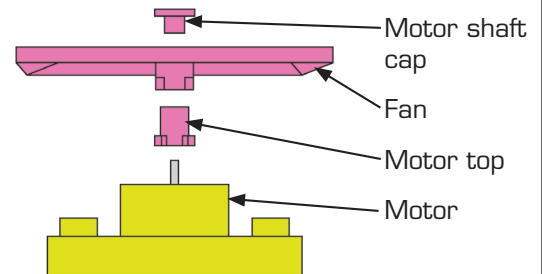
PROJECT 1

Light the Heart LED

Build the circuit shown on the right, turn on the switch (62) by pressing it down, and you will see the heart LED (69) turn on. Turn off the switch (62) by pressing down on it and the heart LED (69) will turn off.

Note: The heart LED (69) has a positive (+) and negative (–) polarity. This means if it is put on backwards, it will not light up. Make sure the heart LED (69) is in the same direction shown in the circuit diagram.
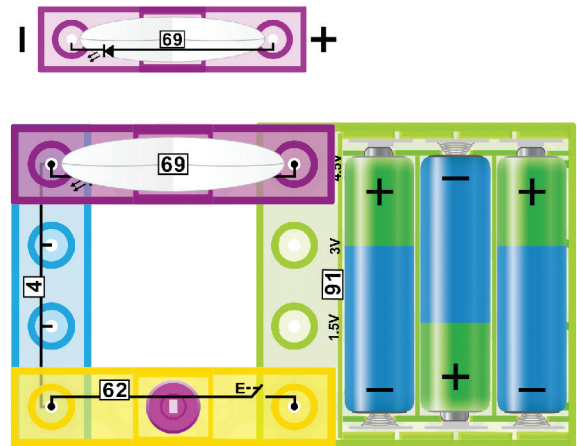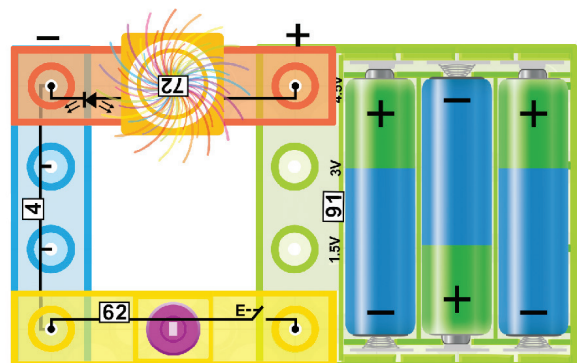
PROJECT 2

Light the Color-changing Fiber Optic Tree

Build the circuit shown on the right, turn on the switch (62) by pressing it down, and the color-changing LED (72) will light the fiber optic tree (40), which will change colors over time. Turn off the switch (62) by pressing down on it and the color-changing LED (72) will turn off.

Note: The color-changing LED (72) has a positive (+) and negative (–) polarity. This means if it is put on backwards, it will not light up. Make sure the color-changing LED (72) is in the same direction shown in the circuit diagram.
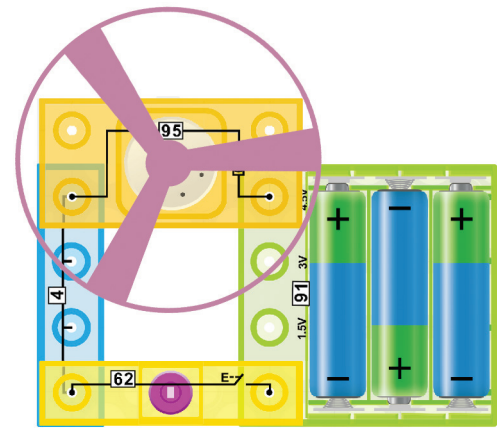
PROJECT 3

Spin the Fan

Build the circuit shown on the right, place the fan blade (60) on the motor (95), turn on the switch (62) by pressing it down, and the motor (95) will start spinning. Turn off the switch (62) by pressing it down and the motor (95) will stop spinning.

Note: 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). In this orientation the fan (60) will spin clockwise, which causes a downward force on the fan blade and thus the fan (60) will NOT launch in this project (see next project).
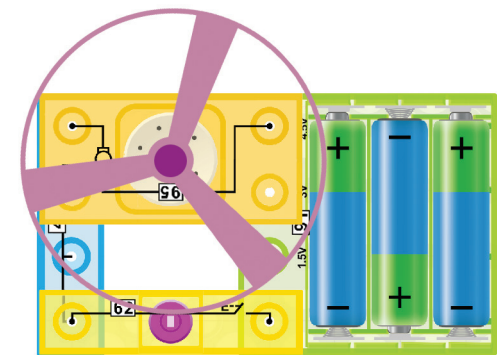
PROJECT 4

Launch the Flying Saucer

Build the circuit shown on the right, place the fan blade (60) on the motor (95), turn on the switch (62) by pressing it down, and the motor (95) will start spinning. To launch the fan you may need to turn off the switch (62) by pressing down on the button or give the fan a tap from underneath with your fingernail.

Note: 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). In this orientation the fan (60) will spin counter-clockwise, which causes an upward force on the fan blade that makes the fan (60) launch. Also remove the motor shaft cap if it was installed previously as it will prevent the fan (60) from launching.
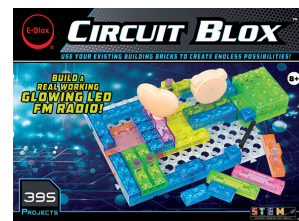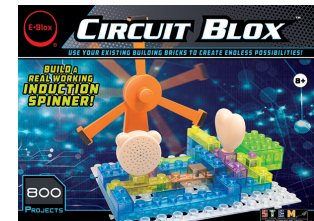
OTHER CIRCUIT BLOX® PRODUCTS

115 Projects
40 pieces, including a motor, fan, sound module, speaker, and more!
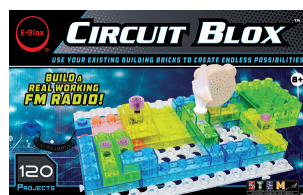
120 Projects
49 pieces, including a sound module, FM radio module, speaker, and more!

395 Projects
66 pieces, including LEDs, resistors, capacitors, transistors, and more!

800 Projects
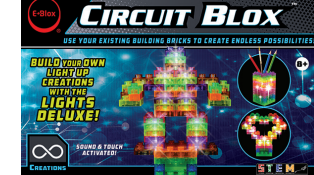78 pieces, including an inductor coil, magnet spinner, transistors, and more!

72 Projects
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Lights
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Lights Plus
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