

Parts of a Lightsaber

Part		Origin	What it does	Photo
Integrated circuit board	Processor	China	The processor has the programming for the electronic device. With the VEX Robot we write code to tell the robot what to do. The processor tells the device what to do. It does this based on the way it is built.	10
	5 x LED drivers (transistor)	China	They help control the amount of current that flows through and electronic device.	10
	Crystal	China	Helps with the timing for the LED lights	9
	Capacitor	China	Protects the circuit and lights from electrical surges. They can store electrical energy	9
Series of Lights	28 x LED	China	The lights are the exciting part of the toy.	5
Wires	9 wires	China	Allow the circuit components to become one system.	6
Speaker	Magnet	China	The two magnets attract and repel each other to vibrate and make sound	7, 8
	Copper coil	China		
Push button		China	Closes and opens the circuit to let the lights work	6
Slide switch		China	Closes and opens the circuit to let the sound work	6