



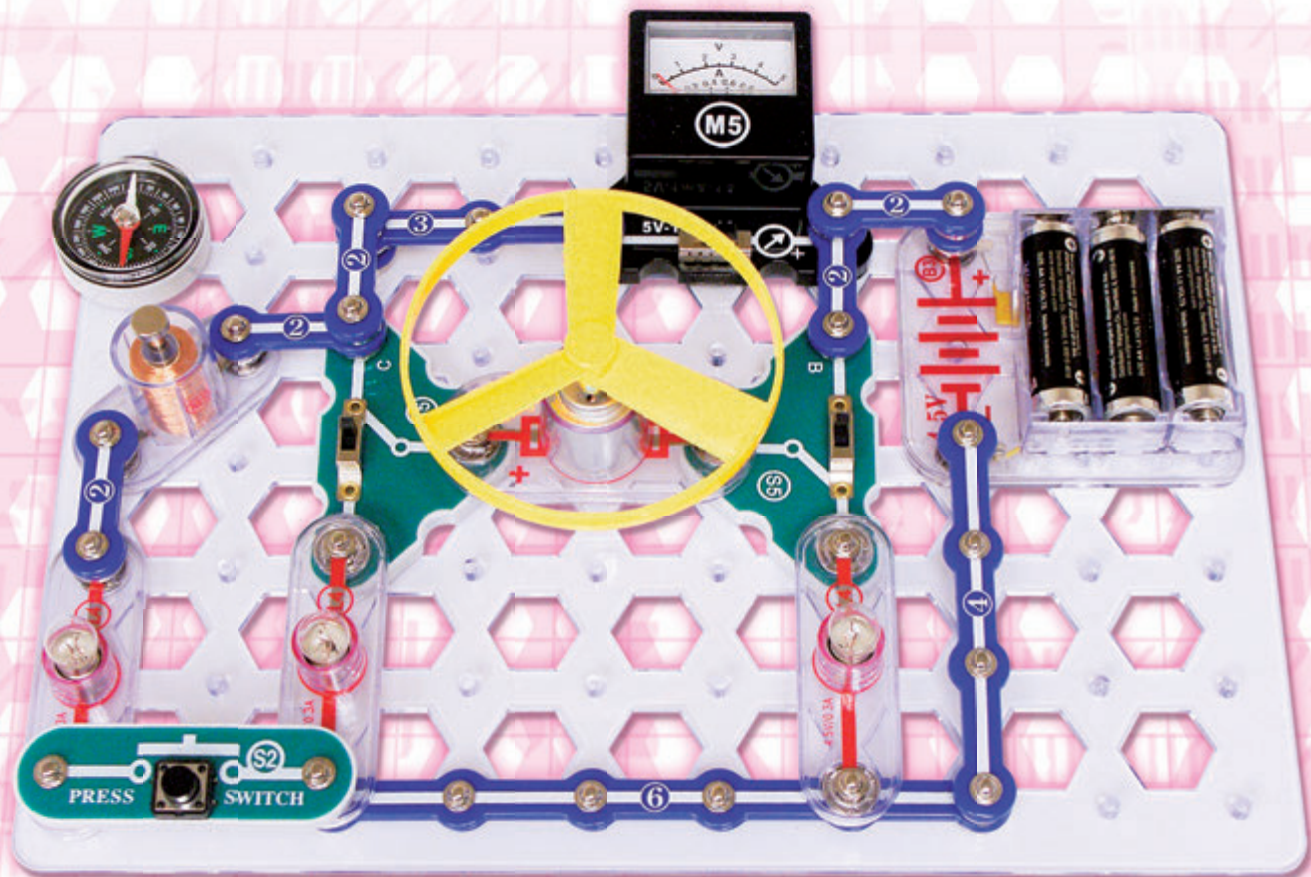
# Manual

## Projects 512-692

# BOFFIN

**750**  
projects

**80**  
parts







Library photo

**8+**

# Table of Contents

Basic Troubleshooting	1	<b>MORE DO's and DON'Ts of Building Circuits</b>	5
Parts List	2	Project Listings	6, 7
About the Two-Spring Socket (?)	3	Projects 512-692	8 - 84
MORE About Your Boffin Parts	4	Other Fun ConQuest entertainment Products	85 - 86
MORE Advanced Troubleshooting	4		

 **WARNING TO ALL PARTS WITH A  SYMBOL** - Moving parts. Do not touch the motor or fan during operation. Do not lean over the motor. Do not launch the fan at people, animals, or objects. Eye protection is recommended. 

 **WARNING: SHOCK HAZARD** - Never connect Boffin to the electrical outlets in your home in any way!

 **WARNING: CHOKING HAZARD** - Small parts. Not for children under 3 years.

**WARNING:** Always check your wiring before turning on a circuit. Never leave a circuit unattended while the batteries are installed. Never connect additional batteries or any other power sources to your circuits. Discard any cracked or broken parts.

## Basic Troubleshooting

- Most circuit problems are due to incorrect assembly. Always double-check that your circuit exactly matches the drawing for it.
- Be sure that parts with positive/negative markings are positioned as per the drawing.
- Sometimes the light bulbs come loose, tighten them as needed. Use care since glass bulbs can shatter.
- Be sure that all connections are securely snapped.
- Try replacing the batteries.
- If the motor spins but does not balance the fan, check the black plastic piece with three prongs on the motor shaft. Be sure that it is at the top of the shaft.

ConQuest entertainment a.s. is not responsible for parts damaged due to incorrect wiring.

**Note:** If you suspect you have damaged parts, you can follow the Advanced Troubleshooting procedure on page 5 to determine which ones need replacing.

## Batteries:

- Use only 1.5V AA type, alkaline batteries (not incl.).
- Insert batteries with correct polarity.
- Non-rechargeable batteries should not be recharged. Rechargeable batteries should only be charged under adult supervision, and should not be recharged while in the product.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable (nickel-cadmium) batteries.
- Do not mix old and new batteries.
- Remove batteries when they are used up.
- Do not short circuit the battery terminals.
- Never throw batteries in a fire or attempt to open its outer casing.
- Batteries are harmful if swallowed, so keep away from small children.

## Review of How To Use It

(See p.3 of the Projects 1-101 manual for more details.)

The Boffin kit uses building blocks with snaps to build the different electrical and electronic circuits in the projects. These blocks are in different colors and have numbers on them so that you can easily identify them. The circuit you will build is shown in color and with numbers, identifying the blocks that you will use and snap together to form a circuit.

Next to each part in every circuit drawing is a small number in black. This tells you which level the component is placed at. Place all parts on level 1 first, then all of the parts on level 2, then all of the parts on level 3, etc.

A large clear plastic base grid is included with this kit to help keep the circuit block together. The base has rows labeled A-G and columns labeled 1-10.

Install two (2) "AA" batteries (not included) in the battery holder (B1). The 2.5V and 6V bulbs come packaged separate from their sockets. Install the 2.5V bulb in the L1 lamp socket, and the 6V bulb in the L2 lamp socket.

Place the fan on the motor (M1) whenever that part is used, unless the project you are building says not to use it.

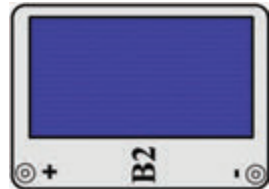


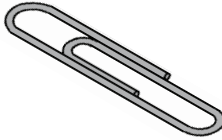

Some circuits use the red and black jumper wires to make unusual connections. Just clip them to the metal snaps or as indicated.

**Note:** While building the projects, be careful not to accidentally make a direct connection across the battery holder (a "short circuit"), as this may damage and/or quickly drain the batteries.

## Parts List (Colors and styles may vary) Symbols and Numbers

**Note:** There are additional part lists in your other project manuals. Part designs are subject to change without notice.

**Important:** If any parts are missing or damaged, **DO NOT RETURN TO RETAILER.** Call toll-free+420 284 000 111 or e-mail us at: [info@toy.cz](mailto:info@toy.cz). Customer Service • Hloubětínská 11 • Praha 9, 198 00

Qty.	ID	Name	Symbol	Part #
□ 1	(B2)	Solar Cell		6SCB2
□ 1 □ 1	(M3)	Electromagnet Iron Core Rod		6SCM3 6SCM3B
□ 1	(S4)	Vibration Switch		6SCS4
□ 1		Bag of Paperclips		6SCM3P
□ 1	(?1)	Two-spring Socket		6SC?1

You may order additional / replacement parts at our website: [www.toy.cz](http://www.toy.cz)

# Obsah je uzamčen

**Dokončete, prosím, proces objednávky.  
Následně budete mít přístup k celému dokumentu.**



**Proč je dokument uzamčen? Nahněvat Vás rozhodně nechceme. Jsou k tomu dva hlavní důvody:**

- 1) Vytvořit a udržovat obsáhlou databázi návodů stojí nejen spoustu úsilí a času, ale i finanční prostředky. Dělali byste to Vy zadarmo? Ne\*. Zakoupením této služby obdržíte úplný návod a podpoříte provoz a rozvoj našich stránek. Třeba se Vám to bude ještě někdy hodit.

*\*) Možná zpočátku ano. Ale vězte, že dotovat to dlouhodobě nelze. A rozhodně na tom nezbohatneme.*

- 2) Pak jsou tady „roboti“, kteří se přiživují na naší práci a „vysávají“ výsledky našeho úsilí pro svůj prospěch. Tímto krokem se jim to snažíme překazit.

A pokud nemáte zájem, respektujeme to. Urgujte svého prodejce. A když neuspějete, rádi Vás uvidíme!