snap:bit

SAFETY GUIDE

IMPORTED AND DISTRIBUTED BY:

Manufactured and distributed by Snap Bit Ltd.

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GENERAL INFORMATION

The snap:bit is an electronic component designed to control Snap Circuits with the BBC micro:bit. It features a 40-pin plug-in socket on the top for mounting the micro:bit. The 5 snap buttons on the edges allow connecting Snap Circuits components to the 5 major pins of the micro:bit: P0, P1, P2, 3V, and GND. Thus, the micro:bit can programmatically control the Snap Circuits using code loaded from the Microsoft MakeCode Editor.

COMPATIBILITY

The snap:bit is compatible with:

- The BBC micro:bit.
- Other PBC boards and accessories that feature the 40-pin edge connector of the micro:bit.
- All electronic kits of Snap Circuits.
- Other electronic kits that feature snap connections.

POWERING YOUR BBC MICRO:BIT FROM SNAP CIRCUITS

If plugged into the snap:bit, the BBC micro:bit can be powered from the battery holders of Snap Circuits. The positive (+) terminal of the battery holder must be connected to the 3V snap button of snap:bit. The negative (-) terminal of the battery holder must be connected to the GND snap button of the snap:bit. Refer to the *Powering the snap:bit* diagram on the other side of this sheet.

It is recommended to use only the Battery Holder (B1) that holds 2 AA batteries. The BBC micro:bit is designed to be connected to power supplies rated at 3V DC current.

Read carefully the Safety Instructions section to learn how to avoid damaging your BBC micro:bit.

PROJECTS AND LESSONS

The snap:bit comes with a list of projects designed to guide you in your first steps of using the BBC micro:bit and Snap Circuits together.

All projects are available online for free on our website at **https://snapbit.org**.

FEEDBACK

We want to hear from you. Please, email us at **hi@snapbit.org** with any feedback you might have.

SAFETY INSTRUCTIONS

IMPORTANT: PLEASE RETAIN THIS INFORMATION FOR FUTURE REFERENCE

- Before using your snap:bit, please get familiar with the safety instructions that come with your BBC micro:bit and Snap Circuits.
- Do not use your snap:bit, your BBC micro:bit, or any Snap Circuits components in water or with wet hands.
- Do not leave your snap:bit within reach of children under the age of 3. We designed the snap:bit to be robust, but still small children may break the snap buttons. There is a choking hazard.
- Do not connect power sources with a voltage higher than 3.3V to the 3V snap button of your snap:bit. The 3V snap button is directly connected to the 3V pin of your micro:bit when plugged in the snap:bit connector. The BBC micro:bit lacks any over-voltage protection or voltage regulation on the 3V pin. The BBC micro:bit will be damaged if powered with a voltage higher than 3.3V.
- Do not connect the power source to your snap:bit the wrong way. The positive (+) terminal of the power source must always be connected to the 3V snap button. The negative (-) terminal of the power source must always be connected to the GND snap button. Connecting the wrong way will damage your BBC micro:bit.
- Do not short circuit the 3V and the GND snap buttons of your snap:bit. This may damage your snap:bit, your BBC micro:bit, and other components connected to the circuit.
- Refer to the warning diagrams on the other side of this sheet.