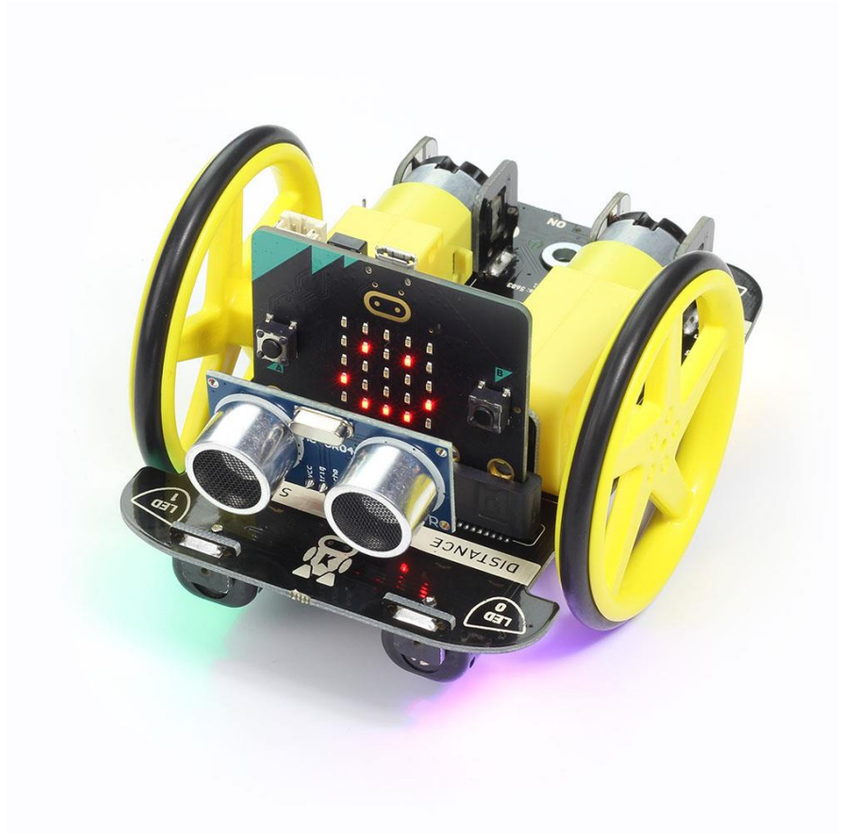
# Kitronik :Move Motor for the BBC micro: bit

The Kitronik :MOVE Motor for the BBC micro:bit provides a fun introduction to buggy robotics. There are built-in battery holders for 4x AA batteries. This provides a regulated voltage supply to power the BBC micro:bit which is fed into the edge connector. There is also a power switch to conserve batteries when the buggy is not in use.

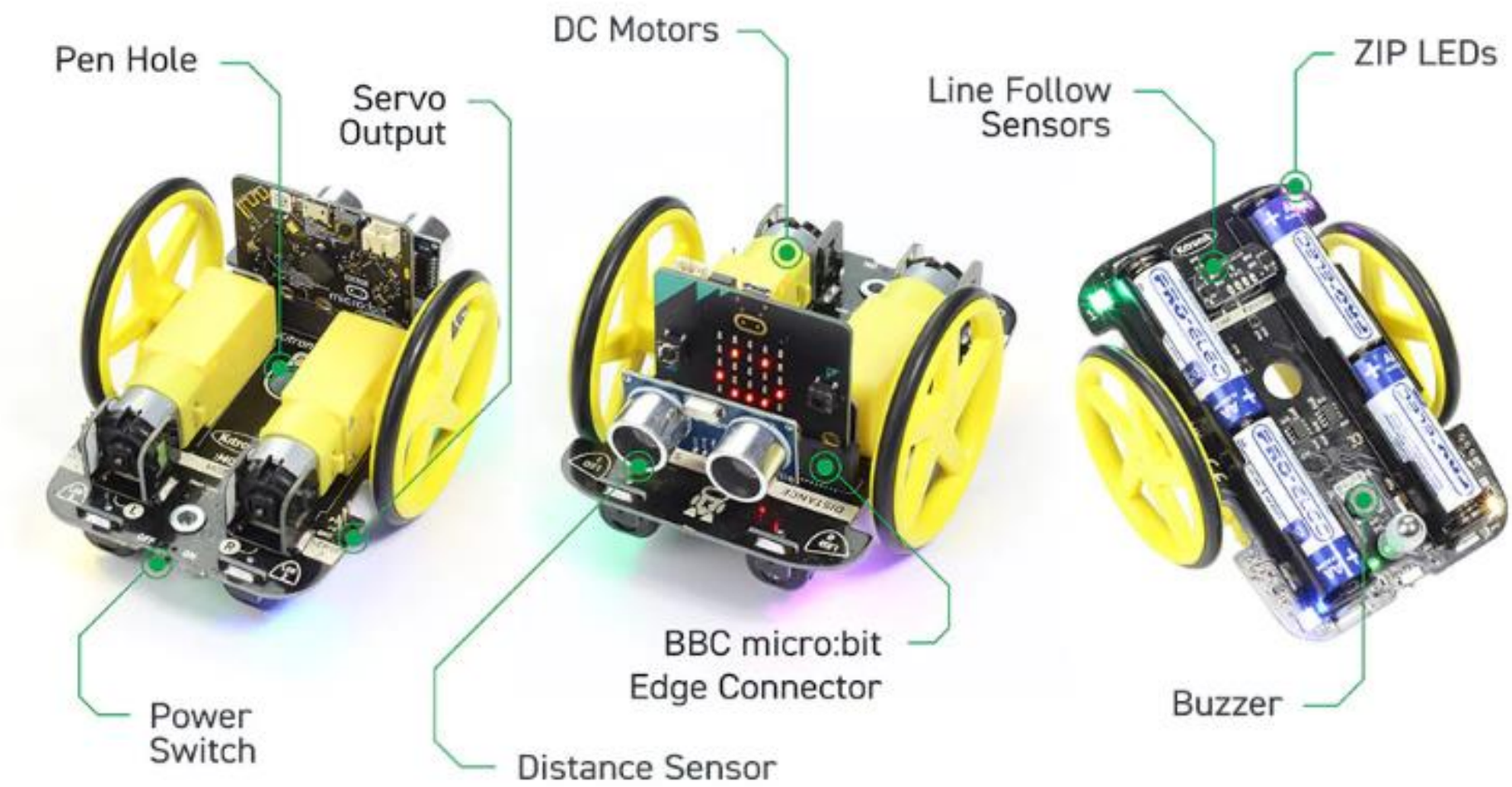
The micro:bit slots into the onboard edge connector. Code the micro:bit, plug it into the buggy, switch the power on, and then play. All of the tutorials and resources are free. There is no soldering required and assembly is quick and super simple.

:MOVE Motor can be coded using the Microsoft MakeCode editor. Kitronik has produced a set of custom MakeCode blocks to simplify coding the completed buggy. The booklet that comes with the buggy contains more detailed instructions on using the blocks and writing code. The :MOVE Motor can also be coded with Python.

A booklet is included in the box which contains some quick tutorials to get you started. There are also additional online tutorials and step by step guides for extra projects.



# Product Overview



## Features

- The Kitronik :MOVE Motor for the BBC micro:bit provides a fun introduction to buggy robotics and coding.
- It is backed up by a range of fun tutorials to introduce you to all of the great features.
- All of the tutorials and resources are free.
- There is no soldering required and assembly is quick and super simple.
- The buggy features two bi-direction DC motors.
- There are ultrasonic distance and line-following sensors onboard.

**Made For micro:bit**

From Beginner to Expert with Custom MakeCode blocks and example Python code.

**ZIP LEDS**

Light up your coding with 4 fully controllable RGB LEDs. Add indicators, headlights or Emergency Vehicle Lights

**Sound the Horn**

Use the Piezo Buzzer to beep the horn, or sound a siren

**Packed with sensors**

Integrated Ultrasonic and Line Following sensors for out of the box autonomy

- It also features a Piezo sounder and pen mount.
- There are 4 full-colour programable ZIP LEDs.
- Two-pin outputs that are ideal for servo connections (can be used for other inputs and outputs).
- The battery holder is built onto the chassis.
- The buggy is also fitted with a power switch to conserve the batteries.
- There is also an onboard edge connector for the micro:bit, code, plug and play.
- Kitronik has produced custom MakeCode blocks to simplify coding with the MakeCode editor.

## Contents

- 1 x :MOVE Motor chassis.
- 2 x Wheel and tyres.
- 1 x Booklet

## Dimensions

- 111mm x 90mm (with wheels attached) x 67mm

**Detailed Tutorials**

Step-by-step tutorials to help make learning fun and easy

**Simple Code**

Microsoft MakeCode Editor is as easy as 1, 2, 3. Just click, drag and drop.

**Designed for Drawing**

Add a pen to unleash your creative side

**Servo Connections**

Expand your control by plugging in servos to dedicated headers

## Notes

- This kit does not include a micro:bit, a micro:bit can be obtained from here.
- No soldering is required!
- Minimal assembly is required.

## Requires

- 1 x micro:bit.
- 1 x USB Type-A to Micro-B USB Noodle Cable.
- 4 x AA batteries.