The Kitronik :MOVE Motor for the BBC micro:bit provides a fun introduction to buggy robotics. More than just a programmable buggy, learning to use all of the included features will give the budding roboteer a solid grounding in robotics as a whole.

Learn about movement, how to utilise light and sound, obstacle detection and avoidance, and how to code :MOVE Motor to follow a line. When used in conjunction with the micro:bit's radio features, the possibilities are endless.

Attached to the chassis are two bi-directional DC motors with variable speed control. The wheels have rubber tyres and are a simple push-fit onto the motor shafts. Slot a BBC micro:bit into the edge connector and you are ready to code. There is no other assembly required and no tools required.

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.

: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. If you are feeling more adventurous or relish a challenge, :MOVE Motor can also be coded with Python.

Also within the booklet (that comes inside the box), are some quick tutorials to get you started. There are also additional online tutorials and step by step guides for extra projects.

Note:

This kit does not include a micro:bit, a micro:bit can be obtained from here.

No soldering is required!

Minimal assembly required.

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.

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:

Length: 111mm.

Width: 90mm (with wheels attached).

Height: 67mm.

Requires:

1 x micro:bit.

1 x USB Type-A to Micro-B USB Noodle Cable.

4 x AA batteries.