

STAY ON TRACK WITH THIS

# :MOVE LINE FOLLOW BOARD FOR BBC MICRO:BIT

For :MOVE mini Mk2

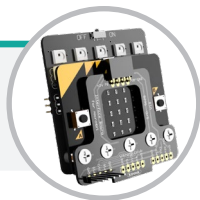


## BUILD INSTRUCTIONS

**NOTE:** This kit includes fixings for both the original :MOVE mini and :MOVE mini Mk2, so there may be spare components left over after the build.

1

To use the Line Following board with the Interface board, first complete the build instructions provided with the Interface Board.



2



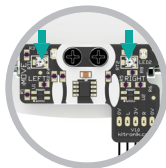
For use with the :MOVE mini, see the following page.

If you wish to use this board separately, connect the Line Follow Board to the Interface Board in the order shown.

GND	➡	0V
P15	➡	R
3V3	➡	3V
P16	➡	L
GND	➡	0V

## TUNING GUIDE

On the underside of the Line Follower Board, there are two potentiometers which can be adjusted using a small screwdriver. These can adjust the boards sensitivity to light depending on which direction its turned.



- ⊖ To make the detector less sensitive: turn the pot clockwise.
- ⊕ To make the detector more sensitive: turn the pot anti-clockwise.

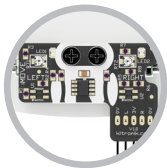
## FOR USE WITH :MOVE MINI

**NOTE:** This instruction book is for :MOVE mini Mk2. If you have an original :MOVE mini, visit [www.kitronik.co.uk/5659-mk1](http://www.kitronik.co.uk/5659-mk1).

1

a. Remove the ' :MOVE ' panel and SERVO:Lite board from the :MOVE mini.

b. Using the **LONGER** two M3 screws and spacers provided, attach the line following board to the underside of :MOVE mini. The shorter screws can be discarded.



**NOTE:** Ensure the larger robot logo is visible from below and the pins are pointing out of the front of the :MOVE mini.

2

Reconnect the servos and slot the SERVO:Lite assembly back into :MOVE mini. Using the cable provided, connect the Interface Board to the Line Follower Board. Refer to Step 2 on the previous page for the connection diagram.



3

GET CODING!

Visit [kitronik.co.uk/5659](http://kitronik.co.uk/5659) for help. See the online datasheet for a tuning guide.



-  Add line following to your micro:bit robots with the compact Kitronik :MOVE Line Following Board For BBC micro:bit, also fully compatible with :MOVE mini.

 **STOCK CODE:**  
5659

 **TOOLS REQUIRED:**  
- Small Phillips screwdriver

 **KIT REQUIRES:**  
- 1 x BBC micro:bit  
- 1 x :MOVE Sensor Interface board for the BBC micro:bit (optional)  
- 1 x :MOVE mini buggy kit (optional)

 **INSTRUCTIONS:**  
This booklet contains build instructions. For more detailed resources please visit our website at [www.kitronik.co.uk/5659](http://www.kitronik.co.uk/5659)

Example Use



 **WARNING** : Contents may inspire creativity

T: 0845 8380781

W: [www.kitronik.co.uk](http://www.kitronik.co.uk)

E: [support@kitronik.co.uk](mailto:support@kitronik.co.uk)

 Designed & manufactured  
in the UK by 

 [kitronik.co.uk/twitter](https://twitter.com/kitronik)

 [kitronik.co.uk/facebook](https://facebook.com/kitronik)

 [kitronik.co.uk/youtube](https://youtube.com/kitronik)

 [kitronik.co.uk/google](https://google.com/kitronik)



For more information on RoHs and CE please visit [kitronik.co.uk/rohs-ce](http://kitronik.co.uk/rohs-ce). Children assembling this product should be supervised by a competent adult. The product contains small parts so should be kept out of reach of children under 3 years old.