

Connecting a BLTouch to a Fly-CDYv2

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Physical Connections

Connect the BLTouch to the Fly-CDYv2 as described in the table below.

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BLTouch Wire Colour	Fly-CDYv2 Pin	Fly-CDYv2 Pin Name
Black	GND	
Brown	GND	
Red	NPWR	
White	C.2	probe
Yellow	E.6	Servo0

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Config.g Changes

Your config.g should be modified as below.

```
M558 P9 H6 F120 T8000 C"^probe" ; disable Z probe but set dive height, probe
speed and travel speed

M950 S0 C"servo0" ; Setup servo 0 as servo port on SK
R
```

You will also need to set up your probe offset using [G31](#) and your [mesh probing grid](#)

Files to Create

Create the following files.

Tip: If you select the BLTouch while setting up your config.g files using the Configurator, these files should be created for you. We still advise checking them to ensure the content is correct.

- `deployprobe.g`
- `retractprobe.g`

Create a file in your sys folder called

```
deployprobe.g
```

In it, paste the following code

```
M280 P0 S10
```

Files to Modify

Tip: If you select the BLTouch while setting up your config.g files using the Configurator, these files should be modified for you. We still advise checking them to ensure the content is correct.

If you want to use your probe as your z endstop, you need to modify your homeall.g/homedelta.g and homez.g

- [homez.g](#)
- [homeall.g](#)

For homez.g, you will have need to have something similar to this. Please modify the coordinates required for the centre of your bed accordingly.

```
; ##### Home Z Preparation #####

G91
                                ; Relative mode

G1 H2 Z5 F5000
                                ; Lower the bed

G90
                                ; Back to absolute posit
ioning

G1 X0 Y0 F10000
                                ; Move to the center of the bed. Adjust to the co
-ordinates required for the centre of your bed

; ##### Home Z Preparation #####
```

```
M558 F250 ; Set the probing speed

G30 ; Probe a single point

M558 F30 ; Set a slower probing speed

G30 ; Probe a single point
```

Testing Macros

It is suggested that you create a number of macros to allow testing of your BLTouch. These should each be created in the macros folder.

- `alarm release + pin`
- `pin up`
- `pin down`
- `self-test`

Create a file in your macros folder called

```
alarm release + pin
```

In it, paste the following code

```
M280 P0 S160 ; Alarm Release and Push-Pin UP
```