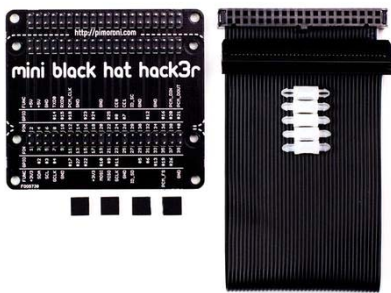
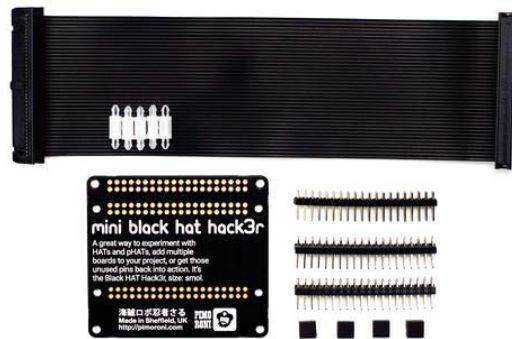


## Mini Black HAT Hack3r



Fully Assembled **PIM169**



Solder Yourself Kit **PIM170**



PCB only **PIM171**

Need to detach or debug your HAT? Then the Mini Black HAT Hack3r is for you!

A nifty little tool that lets you access all of the GPIO pins while also running a HAT. Ideal for debugging your HAT projects or combining a HAT with other circuits.

- HAT & pHAT landing areas with PCB standoffs
- Includes 40 pin GPIO ribbon cable
- All GPIO pins labelled with function, BCM pin number, physical pin number
- Rubber non-slip feet
- 4 mounting holes
- Comes assembled or in kit form

We made this for ourselves when debugging new HAT designs but found it so gosh-darn useful that we thought you might like it too!

Kits include:

- Black HAT Hack3r PCB
- 40-way black GPIO ribbon cable
- 3 x 40-way pin header (pre-installed on the assembled version)
- 4 x PCB standoff for HAT mounting
- 4 x Rubber non-slip feet