

IDENT

Assembly guide



No soldering. No special tools.
About an hour, most of it waiting.

ident.xpdr.aero

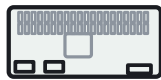
What's in front of you

Lay everything out and check it off. Nothing here is supplied by us — you bought it yourself. 7.3" recommended. 4.0" and 13.3" also work. Glass — handle by the edges.



Inky Impression display

x 1



Raspberry Pi Zero 2 W

Must be the version WITH header pins already fitted ("WH").

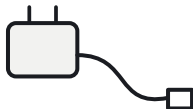
x 1



microSD card

16-32GB. You'll also need a way to plug it into your computer.

x 1



Power supply

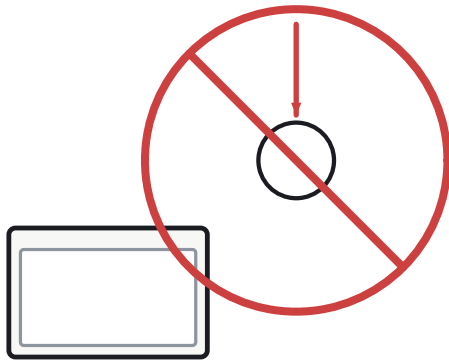
Micro-USB for a Pi Zero. A Pi 4 or 5 needs USB-C instead.

x 1

Tools needed

None. If you find yourself reaching for a screwdriver or a soldering iron, stop and check the parts list.

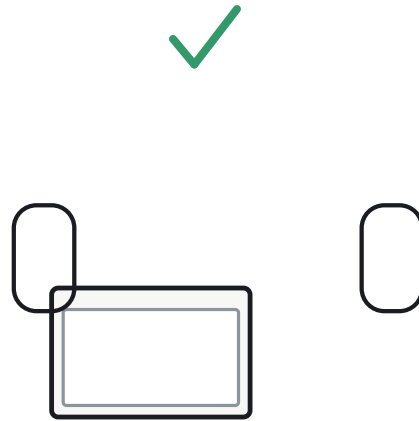
Before you start



Don't press on the screen.

It is glass and it will crack.

Hold both boards by their edges.



Hold it like this.

Edges only, both hands.



Check your Wi-Fi first

The Pi Zero 2 W cannot see 5GHz networks. Only 2.4GHz.

If your router only broadcasts 5GHz, or hides both bands behind one name and pushes devices onto 5GHz, this build will not connect — and no amount of setting up will fix it. Turn 2.4GHz on first.

1 Prepare the memory card

On your computer, not the Pi.



Install Raspberry Pi Imager, choose your Pi model, and pick Raspberry Pi OS Lite (64-bit).

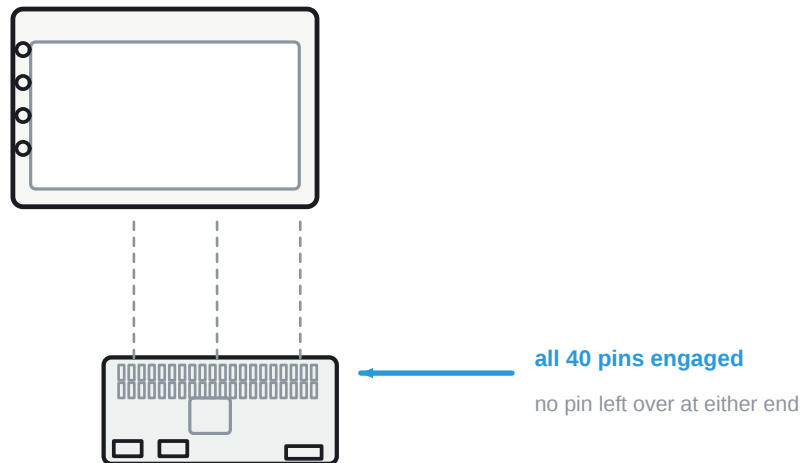
In Imager, click Edit Settings and fill in all of this:

- **Hostname** ident
- **Username** pilot (and a password you write down)
- **Wi-Fi** your 2.4GHz network name and password, country GB
- **Time zone** Europe/London
- **Services tab** tick Enable SSH, password authentication

Then Save, Write, and wait. This erases the card.

② Fit the display to the Pi

Power off. Line up the pins. Press straight down.



Right

Every pin in its socket.
Boards parallel, no gap at
one end. Pressed home evenly.



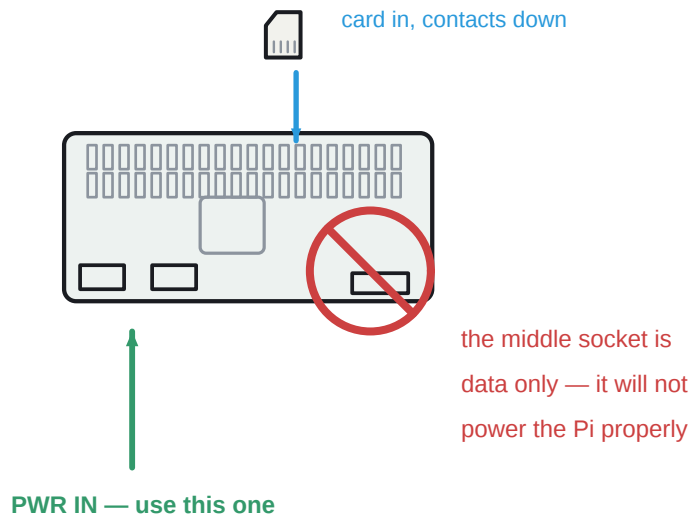
Wrong

Offset by one row, or one
pin hanging over the end.
Check both ends before pressing.

If the kit came with standoffs, use those screws — longer ones can crack the glass.

3 Card in, power on

The two sockets look identical. Only one of them works.



Now wait 2 to 3 minutes.

The first start-up is slow. A small green light will flicker — that is normal and means it is working. The screen stays blank for now.

Nothing on the display yet? That is expected at this stage.

4

Set it up from your phone

Same Wi-Fi as the display. No cables, no typing of code.

Set up your display

Display name

Home base

Airline code

Roster calendar URL

Password

Finish setup

In any browser, go to:

ident.local:8080

The first time, you get a setup page.

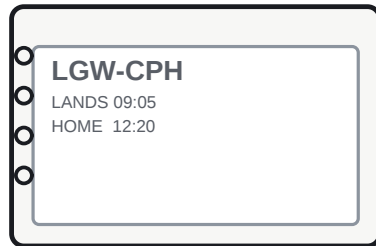
Fill it in and press Finish.

Can't reach it? Find the device's IP in your router's device list and use that instead, with :8080 on the end.

What to enter

- **Display name** Anything. "Kitchen". Useful if you build a second one.
- **Home base** Your base airport code, e.g. LGW.
- **Airline code** Two letters, e.g. U2.
- **Roster calendar** Your crew .ics link. Can be left blank and added later.
- **Password** Locks the control panel. Leave blank for no login.

Done



Within a minute or two the screen draws your duty. It takes about 30 seconds to redraw — that is how colour e-paper works, and it is why the display uses almost no power.

The four buttons

- A on / off
- B change style
- C contrast
- D next duty

If it shows the wrong day

It has lost Wi-Fi. The Pi has no battery clock, so it freezes on the last date it knew. Reconnect it.

Stuck?

Every question we get asked is answered at ident.xpdr.aero/faq

If yours isn't there, the support form is at ident.xpdr.aero/support