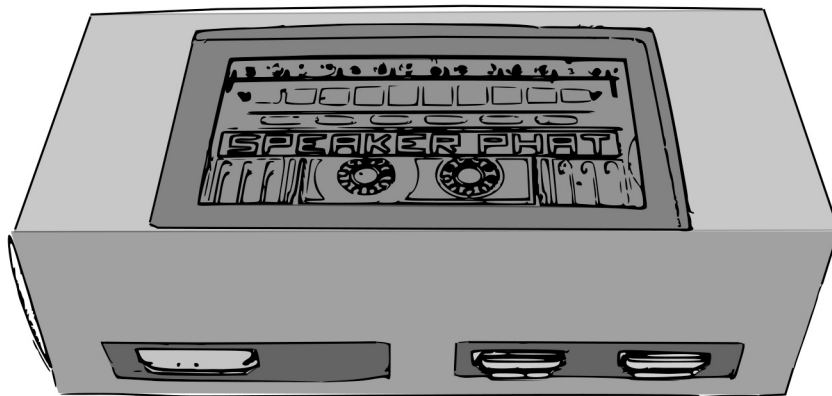


Pi Zero + Speaker Phat Case

A cardboard case for the
Raspberry Pi Zero (W)
Pimoroni Speaker Phat

<https://www.raspberrypi.org/products/raspberry-pi-zero-w/>
<https://shop.pimoroni.com/products/speaker-phat>



For online updates visit
<http://www.superdashi.com/pi/cases/speaker-phat>

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Steps

Before you start

- 1 Ensure you've read the safety instructions.
- 2 These instructions assume that a header has already been attached to the (Raspberry) Pi Zero (W). If this is not the case you'll need to stop now, and attach one. If the Speaker Phat is already attached to the Pi, ease it off (gently so as to not bend the pins).

Raspberry Pi

- 3 Attach a standoff to each corner of the Pi board and fasten each of them tightly with an hexagonal nut.
- 4 Attach the Speaker Phat to the Raspberry Pi.

Cardboard Sheet

- 5 Print the last page of this document onto your card. Take care that the document is not scaled when printed.
- 6 Use a craft knife to cut along the solid black lines. This will produce two skins labelled "inner" and "outer".
- 7 *Optional:* The printed side forms the interior of the design so you can decorate the exterior faces.
- 8 Score along all broken lines.

Inner skin

- 9 Fold the inner skin along its scored lines.
- 10 Insert the bolts into the four holes labelled "A" and loosely retain them with four of the supplied hexagonal nuts. The nuts must be on the printed side.
- 11 Hook the skin onto the standoffs that protrude from the bottom of the Pi and wrap the cardboard around the front-side ports.
- 12 Secure the Speaker Phat and cardboard skin to the standoffs with the previously attached bolts.

Outer skin

- 13 Fold the outer sheet along its scored lines.
- 14 Hook the long edges of the outer sheet to the protruding threads of the standoffs.
- 15 Hook the short edges of the outer sheet to the protruding threads of the standoffs.
- 16 Tightly secure the outer sheet to the underside of the device with four hexagonal nuts.

Safety

Cardboard has an ignition temperature in the range of 218°–246°. In contrast, the Raspberry Pi processor should not exceed 85°. As a result, heat from the Raspberry Pi will not ignite this case. However, cardboard is combustible and must be kept away from flames and sparks.

This design has been developed and tested with cardboard only. Using a material other than cardboard may pose a fire risk.

This design requires additional small parts that are a choking hazard to small children.

Required Parts

- 1 × Sheet of card approx. A4 250gsm.
- 4 × M2.5 12mm M/F standoff
- 12 × M2.5 2mm hex nut
- 4 × M2.5 bolt

The protruding thread of the standoff must be no less than 6mm.

Required Tools

- **printer** to print out the attached template
- **craft knife** for cutting-out the printed template
- **small screwdriver** for tightening bolts

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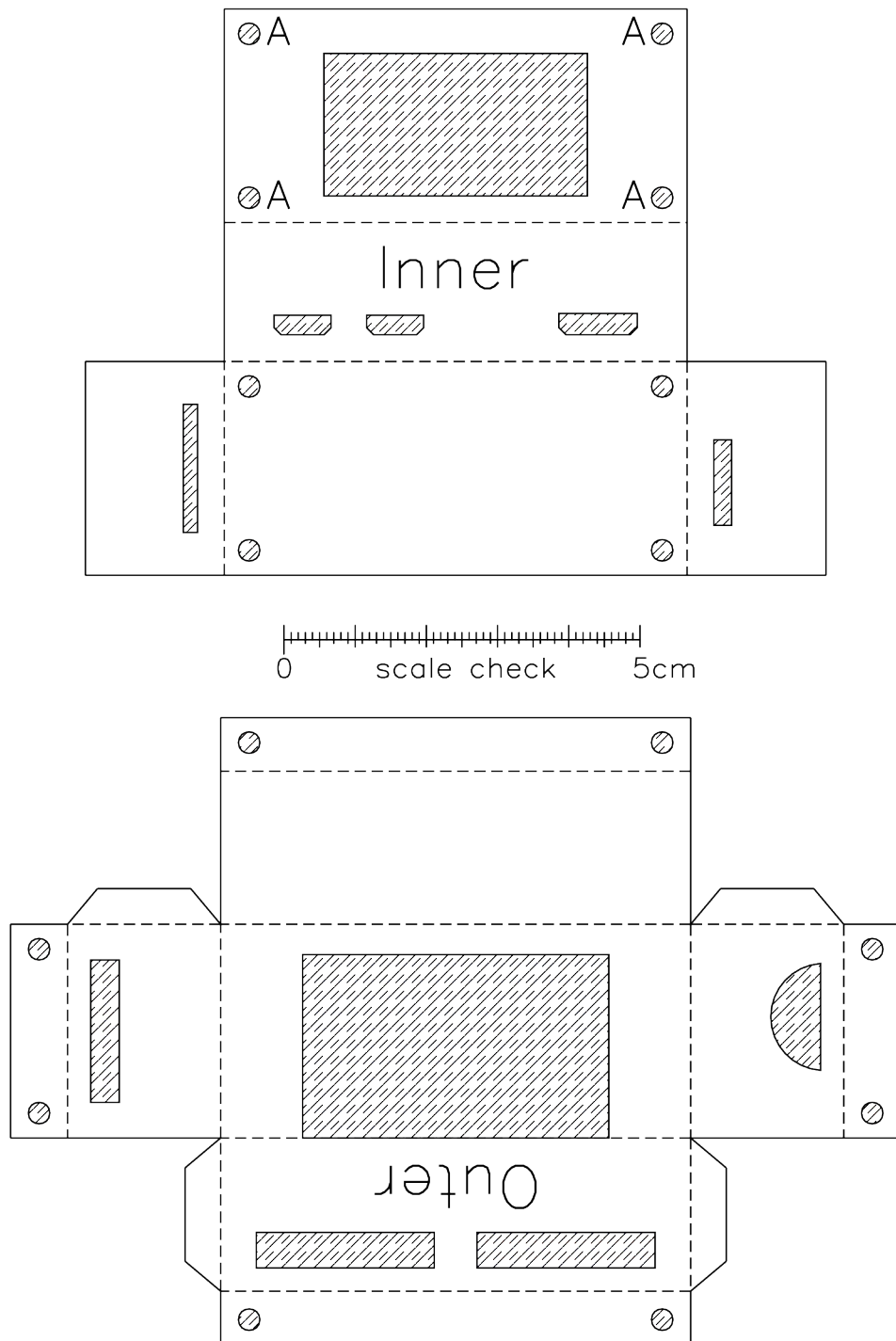
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Cut along solid lines.
Score and fold along broken lines.
Remove shaded areas.

Please be careful when cutting.

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