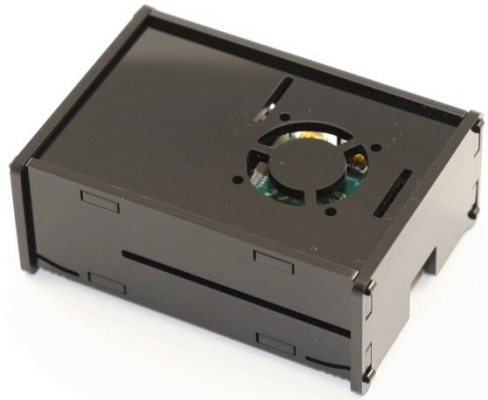




Laser-Cut Enclosure Instructions for Raspberry Pi B+, 2, 3, 3+, and 4



Congratulations on purchasing probably the best Raspberry Pi enclosure in the Universe. It's pretty easy to put together but we like making instructions so we'll help you out. We'll be using a black enclosure but the instructions would be the same for all colors.

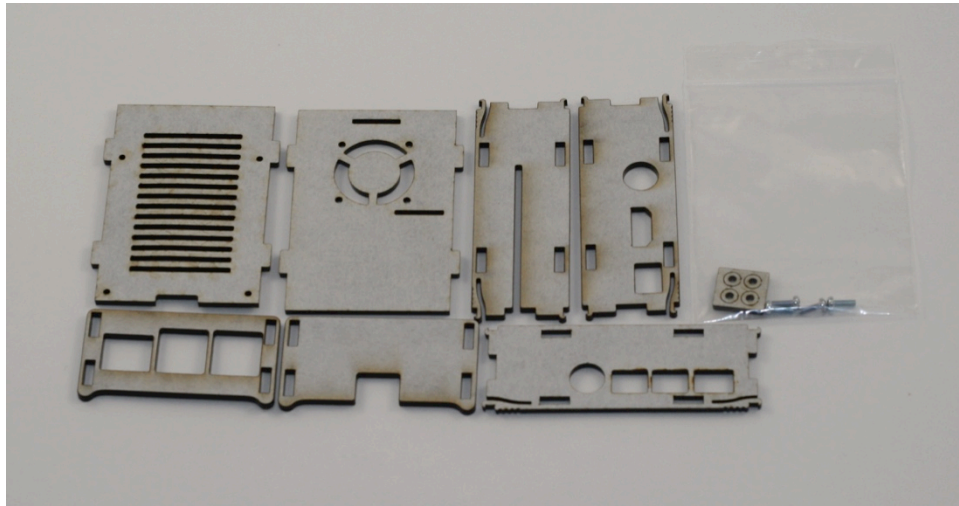
Tools required:

- Philips screwdriver
- Fingernails

Tools optional:

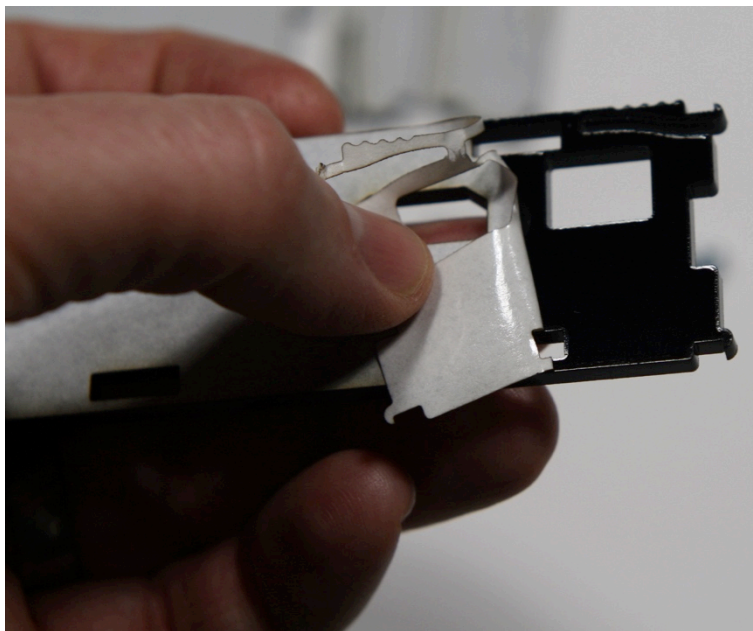
- Hobby knife
- Flame thrower (not really, we just like flame throwers.)

Step 1: Check the Parts



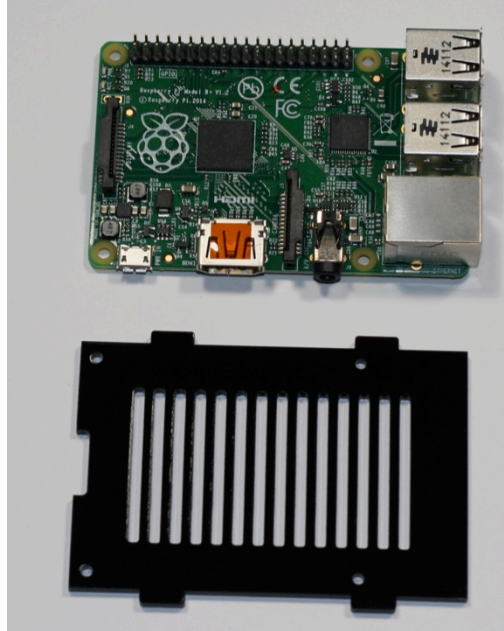
Take the parts out of the bag. You should have 7 large pieces of acrylic and one bag containing 4 things with holes in them and 4 screws. There will be an extra piece as one is used exclusively for Pi 4s and one is used for non-Pi 4s. If you don't have all the parts that probably means we messed up. E-mail us at MakerTradingPost@gmail.com and we'll make it right.

Step 2: Weeding



The acrylic used to make this product is covered with a protective masking to protect it from scratches and burn-marks from the laser. It's kind of ugly so you should peel it off. Fingernails are well suited to this task. If you don't have fingernails a hobby knife also works well (as long as you don't accidentally poke yourself.) Don't try to use your teeth, as it doesn't work well.

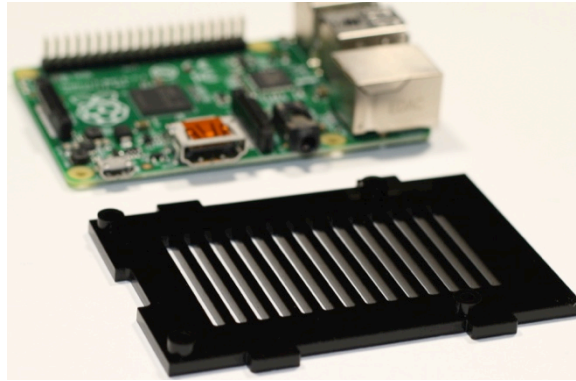
Step 3: Mounting your Pi



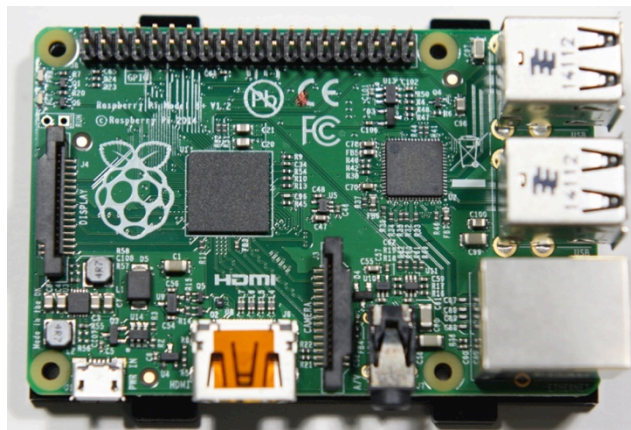
Once the parts are successfully weeded on both sides we can mount the Pi. Position your Raspberry Pi and the base like this picture on a flat surface. Notice how the small indent is on the left. This indent is for the microSD card slot.



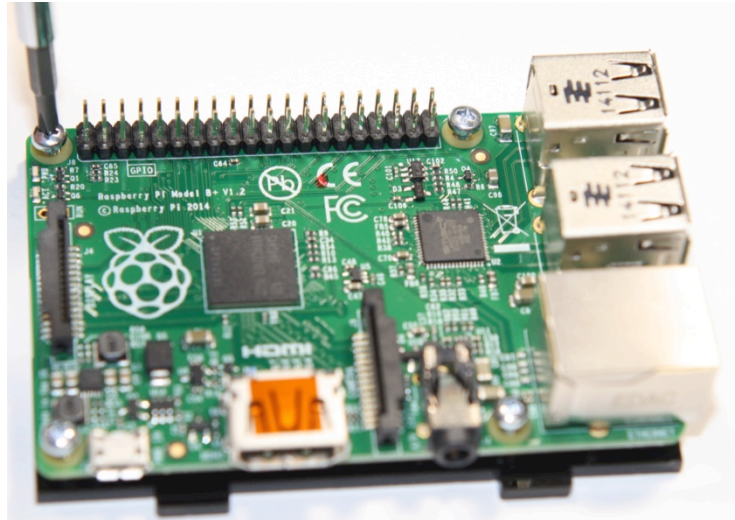
Next, pop out the four small spacers out of the acrylic square. If you have trouble, pushing the center of the hole with a screwdriver and poking them out works well.



Center and place the four small spacers over the holes in the bottom plate. The Pi will sit on top.

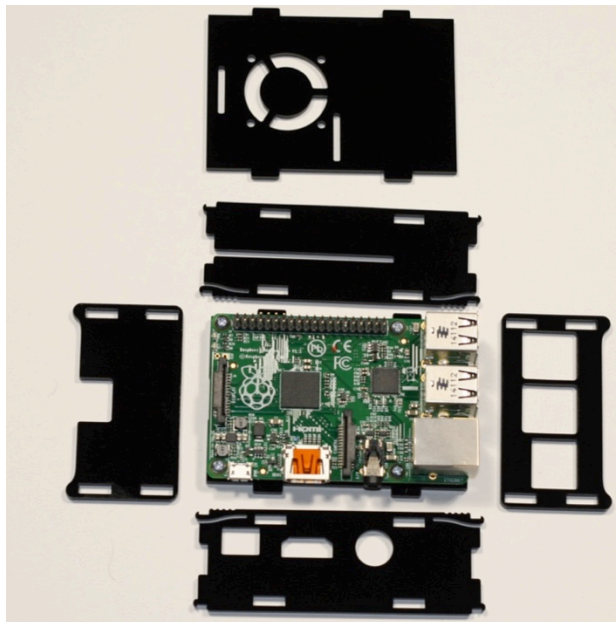


Gently lower your Pi onto the spacers. Try not to move them too much, make sure you can see through the hole in the bottom plate. If they do move, you can use a small screwdriver to relocate them. If you're having trouble with the spacers moving around, a dab of glue (or even a dab of lip balm) will help keep them in place.

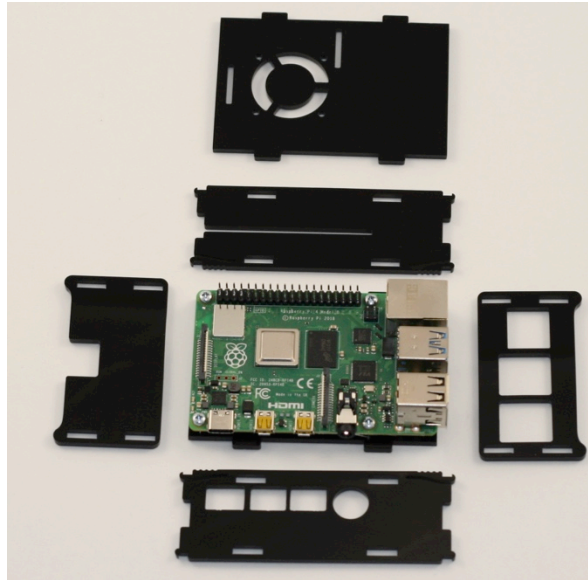


Put the screws in place and using your small Philips screwdriver, screw the 4 screws until they are screwed snugly against the Pi. Make sure you don't over-screw the screws, just screw until the screws make contact with the circuit board.

Step 4: Assembling the Rest



For the Raspberry Pi B+, 2, 3, and 3+ - Align the rest of the parts as shown in the picture above. Make sure the holes in the acrylic correspond to the ports on the Pi.



For the Raspberry Pi 4 - Align the rest of the parts as shown in the picture above. The port cover (bottom piece) will have 4 holes to correspond to the 4 ports on the Pi 4. The USB / Ethernet cover needs to be flipped (Ethernet is the square, the USB ports are rectangles.)



Put the back cover in place first. The slot should line up with the GPIO pins. The “ears” on the base will fit into the rectangular holes on the back cover. Be sure that the small slots that go to the little “claws” on the end are on the bottom.



Put the top into place next. The vent holes go over top of the processor (the black or sliver square near the Raspberry logo.) The slots correspond to the camera and CSI connectors. It might help to hold the top in place with your finger until the next part.

Non-Pi 4 Pi's



Pi 4



Being sure that the parts in the front line up with the ports on the Pi, put the front side into place. Remember to make sure the small slits that lead to the “claws” are on the bottom.

Non-Pi 4 Pi's



Pi 4



Now it's time to put on the left side. Make sure the cutout for the microSD card is on the bottom and “hang” the side from the top “claws” first. Once in place, you can gently push the bottom over the lower claw, snapping it into place. If it doesn't go easily it helps to wiggle the part from side to side to help it to snap into place.

Non-Pi 4 Pi's



Pi 4



Do the same to the right side. The two taller holes line up with the two USB ports on the Pi. The smaller hole lines up with the Ethernet port. Once it's lined up snap the part into place just like the left side.

Step 5: You're Done!

Non-Pi 4 Pi's



Pi 4



That's it!! You're all done!! Why are you still reading this? You should be playing with your Raspberry Pi! It's so exciting that we feel like we've used too many exclamation points!