

Project Kurt Auto-Opening Poké Ball

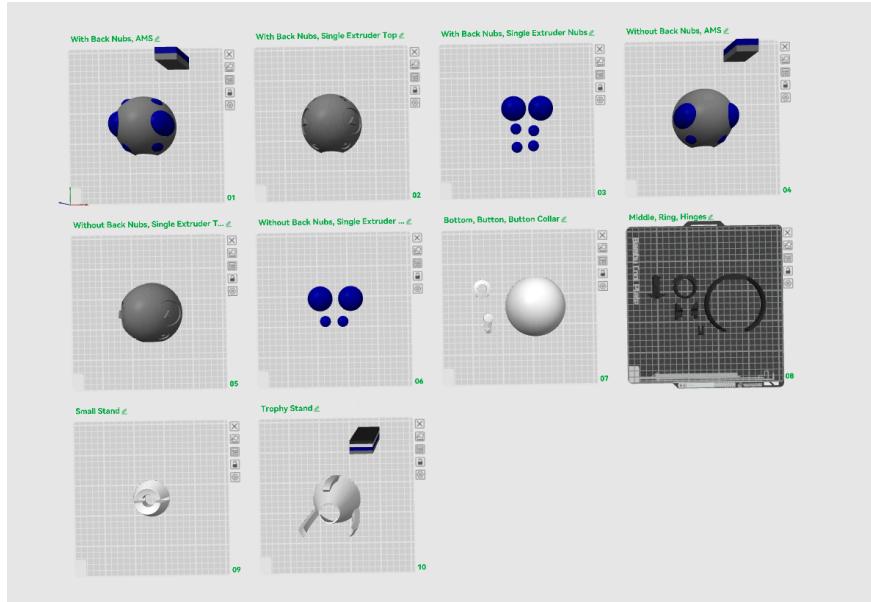
Universal Instructions



These instructions are intended to be used to construct an auto-opening Poké Ball created using the original Editable Poké Ball Base design. While the pictures shown involve the construction of the Heavy Ball, the accompanying instructions are intended to be generally applicable to any ball you may make. Of course, check the description of the print where it was originally uploaded to confirm whether or not there are any special instructions outside of what is contained here. If you are someone who has created their own custom Poké Ball design, feel free to include these instructions with your upload, and edit them however you deem appropriate (if at all). Pardon the low quality pictures! I don't have access to the best equipment. The video linked below contains a video version of the build instructions as well as other general information about the project.

 I made my own Custom Poke Ball Designs (And you can too!) #ProjectKurt

Printing



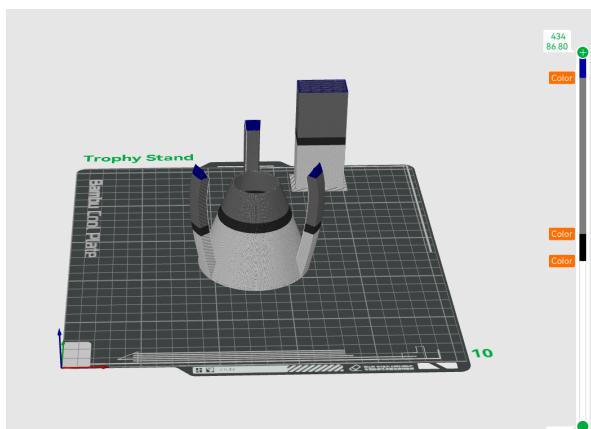
Print off all of the necessary parts.

I recommend printing all the Hinges with 100% infill, as they will be subjected to the most stress.

Be careful, as sometimes there may be redundant pieces that are unnecessary to print. For example, this Heavy Ball has options for both multi-extruder and single-extruder printers as well as an option to include the nubs in the back or not. Check the source you downloaded the file from for any extra notes like this. Also, some parts, like the Trophy Stand and the Small Stand, are completely optional.

Aside from any extra parts that may be specific to the Ball you're printing, the necessary parts include the Top, Bottom, Middle*, Ring, Button Collar, Button, Middle Hinge, Left Hinge, Right Hinge, and Small Hinge.

*If you are printing a ball based off of the Symmetrical Ball Base, such as the Cherish Ball or Beast Ball, there is no middle, and you can skip step 2 of the construction process.



Tip! I like to add pauses to swap out my filament to give the trophy stand a look to reflect the ball itself. Totally optional, though!

Pre-Processing

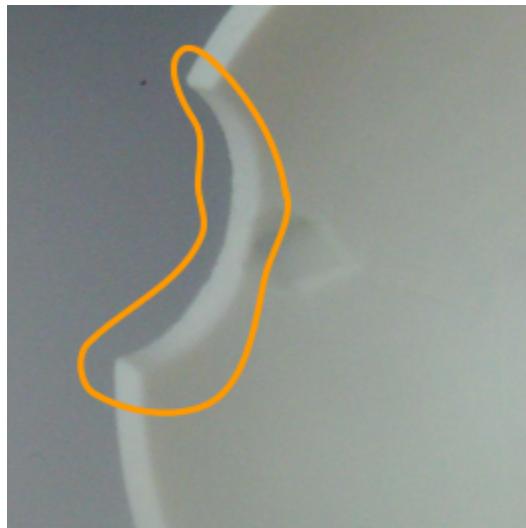


^Remove all supports. Supports will almost definitely be found on the Top and Bottom, and may also be found on other parts included in custom designs.

>This area in the button can also sometimes have extra plastic that can prevent the ball from latching. It should look like this if clear.



^Make sure to get any supports or stray pieces of plastic that may be stuck in any of the tabs and/or slots used to join parts. These will prevent the parts from joining properly.

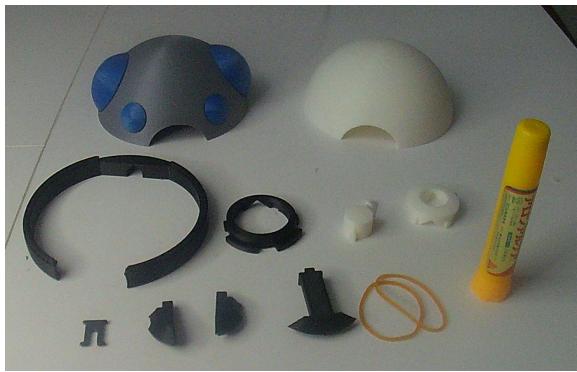


<The bumpy parts where the Bottom meshed with the supports here could also prevent the Ball from closing properly. I recommend sanding it down. The support in this picture separated rather cleanly, so it wasn't necessary here.

Construction (1)



<Step 1: Put together any custom parts. Follow any special instructions as they are written from the source you downloaded the model from. In this case, the Heavy Ball has nubs that need to be glued on. When you are finished, you should have these parts, shown in order from top left to bottom right:



>Step 2: Combine the Top and Middle. Make sure there's no debris in the groove on the bottom-side of the Top, and put glue inside. Then, press the slot on the Middle inside. If you are making a ball based on the Symmetrical Editable Ball Base, this step is unnecessary.

Top, Bottom, Middle*, Ring, Button, Button Collar, Small Hinge, Left Hinge, Right Hinge, Middle Hinge.

You will also need two rubber bands and some glue.

*Balls made from the Symmetrical Editable Ball Base, like the Cherish or Beast Balls, have no middle. As such, they may skip the next step.



Construction (2)

>Step 3: Combine the Button and Button Collar.

Without using glue, place the button inside the button collar. Wrap a rubber band around the wings on the Button Collar to hold it in place. The Button should bounce back when pressed.



<Step 4: Combine the Button Collar and the Ring.

Put glue in these indentations in the Ring, and push the Button Collar into them like this. Be careful not to get glue anywhere else; you may accidentally glue the Button to the Ring or the glue may end up leaching out and drying on the outside, creating an unsightly white crust.

>Step 5: Combine the Ring and Top. Put glue in these indentations in the Top, and push the Ring in. You may want to try pushing it in beforehand to confirm if you can do it before you glue it; it's a rather tight fit.

If you can't fit the two together, try sanding down the place where the support interfaced with the Top. Depending on how bumpy it is, it may be preventing the pieces from fitting together.



Construction (3)

>Step 6: Combine the Bottom and Small Hinge. Slot the Small Hinge into the Bottom, as shown. *Do not use glue.* The two-pronged side should be sticking outwards.



<Step 7: Combine the Small Hinge and Middle.

This is the trickiest part. Start by putting one of the prongs into its hole into the top, and then, bending the other prong, push it into place. It should bend back and snap into place, combining the two halves.

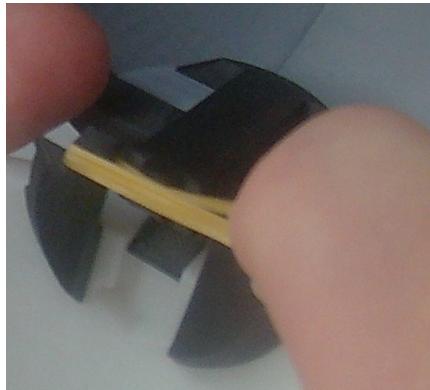


>Step 8: Glue the rest of the Hinges into their places.

Make sure there are no bits of plastic from supports left in the holes, and glue the Left, Middle, and Right hinges into them. I recommend putting glue in the holes for the Left and Right Hinges, but directly on the Middle Hinge as pictured (on the sides of the pentagon, NOT the top!). Make sure to push them all the way down, so they aren't crooked when the glue dries!

Construction (4)

>Step 9: Let the glue dry. I know you may be champing at the bit to get this thing up and running, but be patient! We don't want the hinges getting ripped out of their sockets.



<Step 11: Put the rubber band in. Loop the rubber band around the hook on the top of the Left Hinge, in front of the Middle Hinge, and around the hook on the Right Hinge. You may have to double or even triple the rubber band up, depending on its length and strength.

>Step 12: Close the Ball PROPERLY.

In order for the ball's hinge to be completely contained internally, the Top and Bottom first separate *and then* swing outwards.

In order to close it without breaking the hinges, make sure to follow these instructions:

1. Close the Ball halfway.
2. Push the Top and Bottom towards each other
3. Swing it closed while pushing the two halves together, until the Button clicks into the Bottom.



Operation

After closing, the Button should click into place and stick out from the Button Collar a bit. To open, hold the Bottom firmly, and push the Button. The Top should swing open freely. Be careful, though, as the Button will open up with the Top, so it will move out from under your finger once you press it.



Questions

Any questions about the original Editable Poké Ball Base or any models made by CarlThePumpkinMan can be directed to CarlThePumpkinMan@gmail.com or @CarlThePumpkinMan on Discord via direct message.

Of course, any model-specific questions can be directed to the comments section of the model on the site it was uploaded to.

Happy Printing!