

Watch Case Build Instructions

3D PRINTED PARTS

Print time is roughly 17 hours for all 3 pieces @ 60 mm/s.

Watch Case (decent surface quality to limit amount of sanding needed)

- Filament choice not really important
- 0.2mm layer height
- 25-30% infill (ideally you use multiple processes and use 100% infill for at least the first 10mm if you can)
- Support is optional depending on overhang performance
- Brim optional

Cover and Cover Back Plate (decent surface quality to limit amount of sanding needed)

- Filament choice not really important
- 0.2mm or higher layer height
- 15-20% infill
- Support recommended
- Brim optional

FINISHING 3D PRINTS

1. Remove any support material.
2. Sand pieces to the desired smoothness. Start with 220 or 320 grit and move up until you have a nicely smooth part without visible print lines.
3. Wipe the sanded parts with a lightly damp cloth or paper towel.
4. Apply even and light coat of primer.
5. Allow enough time for primer to dry, then sand lightly.
6. Wipe the sanded parts with a lightly damp cloth or paper towel.
7. Once the parts are dry, evenly apply light coat(s) of base coat spray paint.
8. At this point you can either finish with a clear coat or you can hydro-drip your parts (you can see a full guide on how to do that [here](#).)

Review Assembly Section if you prefer a seamless back cover plate

ASSEMBLY

1. Prepare acrylic by cutting to a 3.6" x 4.3" rectangle. I used painters tape, marked the lines, and then cut using a jigsaw.
2. Slide acrylic rectangle into the back of the cover.
3. Slide (glue optional) back cover plate behind acrylic sheet. (For a seamless look, slide acrylic into before finishing the cover and use Bondo Spot Putty to fill the seam and then finish.
4. Review how hinges operate and ensure orientation is correct before inserting into all 4 mounting holes.
5. Now you are ready to wrap your watches around the watch pillows, insert into case and close the lid. I hope you enjoy your new watch case!