Makertech

Stage 02: Dual Switching Hotend Upgrades

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Step 1 — Aluminium Probe Mount



- (i) Replace the 3D printed probe mount with the aluminium one.
- Start by pushing the probe through the new mount and then secure it in place.
 - M2.5 x 6mm bolt

Step 2 — Copper/Titanium Heatbreak and New Thermistor



- Replace the steel heatbreaks with the new Copper/Titanium ones.
 - You may need to heat the heat block to free the old heatbreak, if this is the case you can use either a lighter or wait until you have completed the build and heat the hotend via a gcode command.
- Replace the thermistor with the new one.
 - Connect them to the control board.

Step 3 — Installing the Servo Arm



- (i) The servo arm design has been updated to incorporate the small arm included with the servo.
- The 3D printed part of the arm can be found <u>here</u>, we recommend printing it in ABS.

- Drop the injection moulded arm that comes with the servo into the 3D printed arm.
- Attach it to the servo shaft as shown with an M2.5 x 6mm bolt.

Step 4 — Cable Relief



- (i) Fix to the tool carriage the 3d printed cable relief bracket.
 - M3 x 10
- Use cable ties to secure the cable loom to the bracket.

Step 5 — Cable Relief



- Move the print head to the near right of the print area.
- Use cable ties to secure the loom to the side panel.