SR6 Beta Fan Tray

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This uses a small 4010 fan to blow air (mostly) out of the servo gaps, via an air intake. You can stuff a little crumpled up scrap of paper in the gaps of the micro usb port then fully tighten down the ESP32 if you want to direct even more air out of the servo gaps. Be sure to not compress the buttons.

You must have at least 37mm between your servos. This is 1mm more than Tempest's tray design. The 40mm fan is lower than the servos but very long servos may not fit with this tray. If it's close, you could add a washer between each servo and it's frame to get you about 0.5mm per side extra, which should be the same as the stock tray.

You can mount a power plug via zip tie like the stock tray, or mount one with a 13mm hex nut that it screws into. There are two holes for switches that you can punch out with a screwdriver, and two holes for a future power bus mount.

Print at 0.2mm layer height and be sure that you have the settings that allow bridging turned on in your slicer (this varies slicer to slicer). Avoid extrusion widths larger than 0.45mm on this model.

BOM:

4010 5v Radial Fan with 36mmx36mm mount holes, such as

https://www.amazon.com/gp/product/B07RMY75GH/

- 4 - M2x6mm
- 2 - M2x10mm
- 1 - M2x20mm
- 1 - M2 Hex Nut

The M2x20mm is optional but nicer to clamp the assembly together if you've got it, but can be replaced by a screw 6-10mm on each side. See images for screw locations. You can power this fan directly off the ESP32 by plugging the JST into VIN and GND. Optionally you can add an adhesive heatsink to the esp32, but I do not think this is needed at all with the airflow so close to the heat spreader of the chip.

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