



Heewing T-1 Ranger Hatch Cooling Vent

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Summary

This aesthetically pleasing yet functional vent allows air to leave the cabin of the T-1 Ranger to flow air over the VTX

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The T-1 Ranger, albeit an excellent FPV plane, is built like a sealed oyster with very few places for air to escape. This causes two problems:

1. Hot air accumulates inside of the cabin which prevents the VTX from cooling down properly as air can come in through the front vents but it cannot escape, potentially leading to VTX overheating issues.
2. The barometer onboard will output inaccurate altitude readings. As the plane goes gains airspeed, air will try to ram into the cabin's atmosphere through the front inlet which will resist the incoming air particles as the cabin air cannot escape. This will result in an increased cabin pressure as the inbound air pushes its way inside of the cabin, causing incorrect barometer readings at increased velocities as the apparent pressure sensed by the flight controller is higher than the actual pressure outside of the plane.

This simple yet effective hatch air outlet eliminates these two issues by letting heated cabin air escape. Simply cut out its shape from the foam hatch and glue it in place.

Model files



coolingpentagon.stl

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