



V-Tail 400/500 FRAME ASSEMBLY GUIDE



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VTail 400 / 500

Thank you for purchasing a VTail multi-rotor kit. This guide will help you assemble the mechanical frame. Should any parts be missing or broken, please contact us via the RobotShop Support Center. Images shown are for the VTail 400 though VTail 500 parts are designed the same way. Special thanks to [InnerbreedFX](#).

G10 PARTS

- 6x VTail Arm Support
- 1x VTail Tail Brace
- 2x VTail Tail Brace Support
- 1x VTail Bottom Body Plate
- 1x VTail Middle Body Plate
- 1x VTail Top Body Plate
- 2x VTail Bottom Front Arm
- 2x VTail Top Front Arm
- 6x VTail Landing
- 2x VTail Rear Arm
- 2x VTail Bottom Tail Motor Mount
- 2x VTail Top Tail Motor Mount
- 2x VTail Rear "V" Support

HARDWARE

- 31x 0.5" standoffs
- 4x 0.25" standoffs (To secure your flight controller)
- 6x 1.5" standoffs (For the Top Body Plate)
- 8x 3/16" 4-40 hex screws (For the 0.25" standoffs)
- 62x 1/4" 4-40 hex screws
- 14x 3/8" 4-40 hex screws
- 6x 0.5" 4-40 set screws (To mount the Top Body Plate)
- 14x 4-40 nylon lock nuts

Note: hardware type / quantity may change slightly depending on availability.

Landing Gear (Build 3x)

- 4x 4-40 x 3/8" hex screws
- 4x 4-40 nylon lock nuts
- 2x 4-40 x 1/4" hex screws
- 1x 4-40 hex standoff



Front Arms (Build 2x)

- 8x 4-40 x 1/4" hex screws
- 4x 4-40 x 0.5" hex standoffs
- 1x Landing Gear Assembly



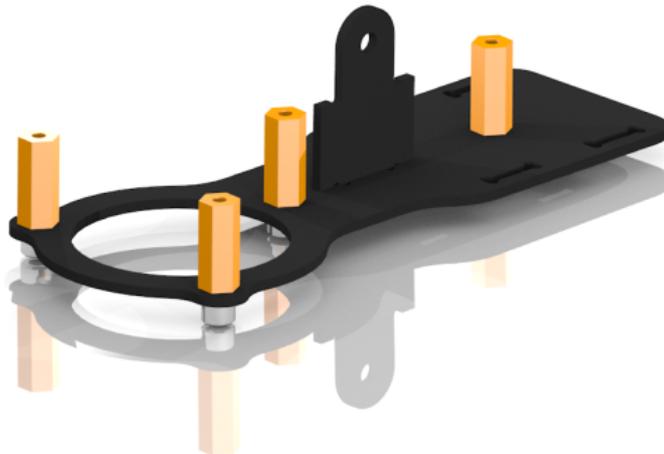


Note: The 0.5" standoff in the landing gear is designed to pull the two tips closer together, you may want to remove one of the 4-40 hex screws from the 0.5" standoff at the base of the landing gear to make installation into the frame easier.



Rear Arm (Build 2x)

- 4x 4-40 x 1/4" hex screws
- 4x 4-40 x 0.5" hex standoffs



Rear Tail

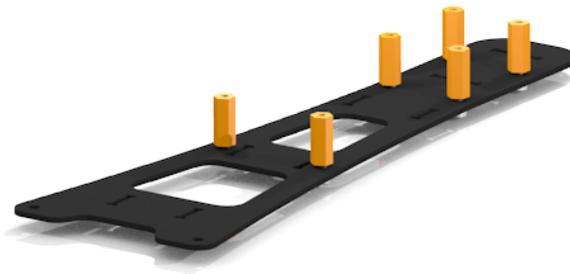
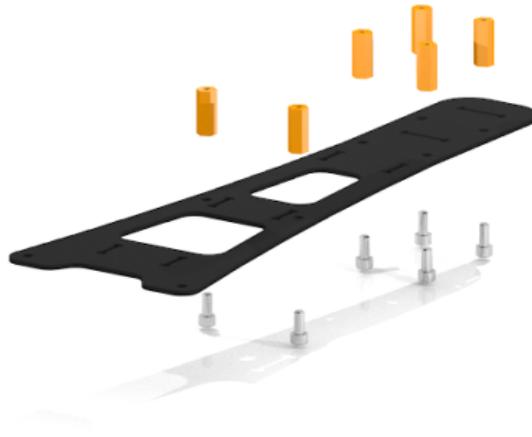
- 8x 4-40 x 1/4" hex screws
- 2x 4-40 x 3/8" hex screws
- 2x 4-40 lock nuts
- 2x Rear Arm Assemblies





Rear Arm (Build 1x)

- 12x 4-40 x 1/4" hex screws
- 6x 4-40 x 0.5" hex standoffs
- 1x Landing Gear Assembly
- 1x Rear Tail Assembly





Note: The 0.5" standoff in the landing gear is designed to pull the two tips closer together, you may want to remove one of the 1/4" 4-40 hex screws from the 0.5" standoff to make installation into the frame easier.



Main Body

- 12x 4-40 x 1/4" hex screws
- 6x 4-40 x 1.5" hex standoffs
- 6x 4-40 x 1.2" set screws



