Tilt Motor Unit for 2 Motor belly-sitter

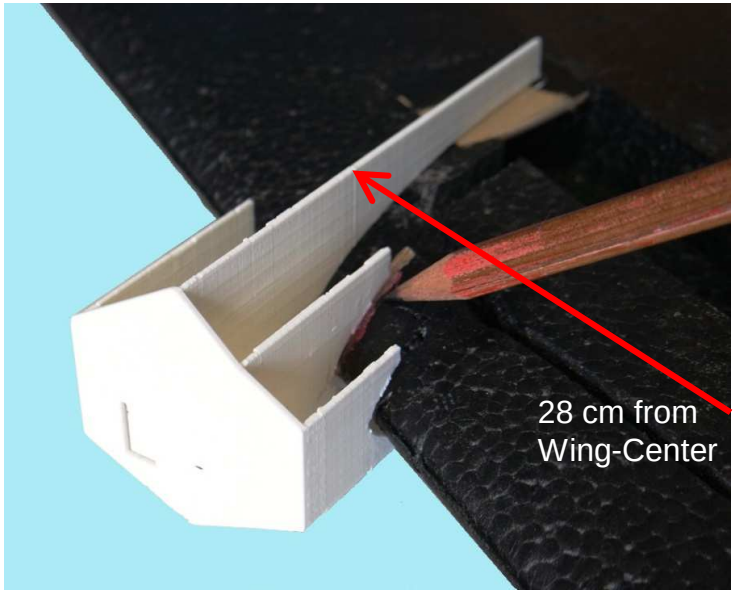
Designed for TBS- Caipirinha Wing
https://hobbyking.com/en_us/tbs-caipirinha-fpv-flying-wing-epp-850mm-arf.html?___store=en_us

Motor Distance 56 cm

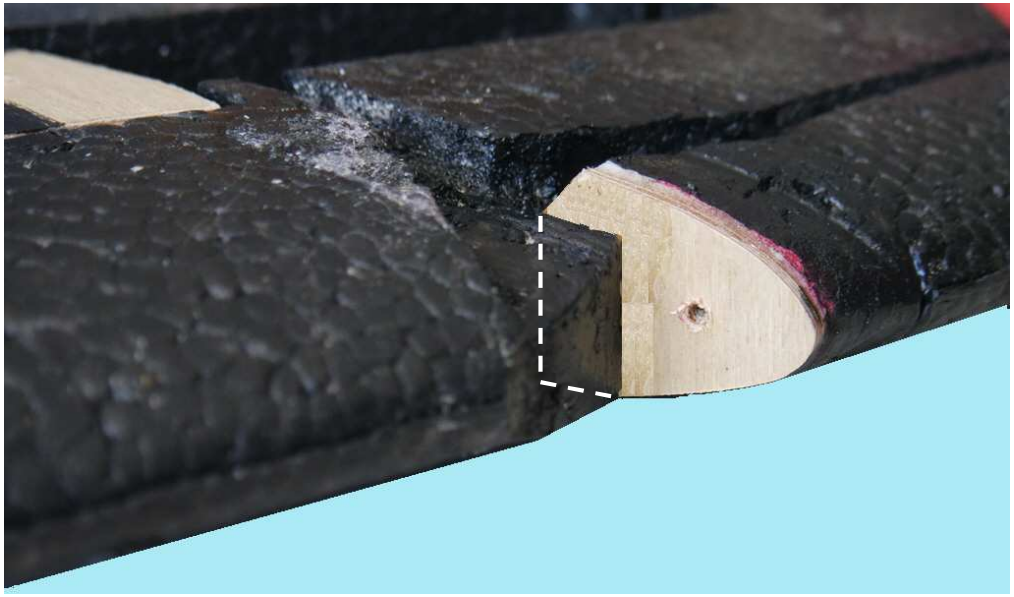
Firmware Presented by Andrew Tridgel http://discuss.ardupilot.org/t/dual-motor-tailsitters/15302

Motor Quanum MT 2212, KV 1000
ESC DJI Snail 30A
Propeller Carbon 9x5.5, https://www.hobbyking.com/de_de/catalogsearch/result/?q=505000002-0
Digital Servo Hitec HS 5070 MH, 3.1 mkp, 12.5 gr.
Programmer Hitec DPC-11 to set Servo 180 degrees angle
Download Programmer SW
http://hitecrcd.com/products/servos/digital-servo-programmers-2/dpc-11-universal-programming-interface-for-hitecs-programmable-servos/product

Video https://www.youtube.com/watch?v=BzAkoDbe4So

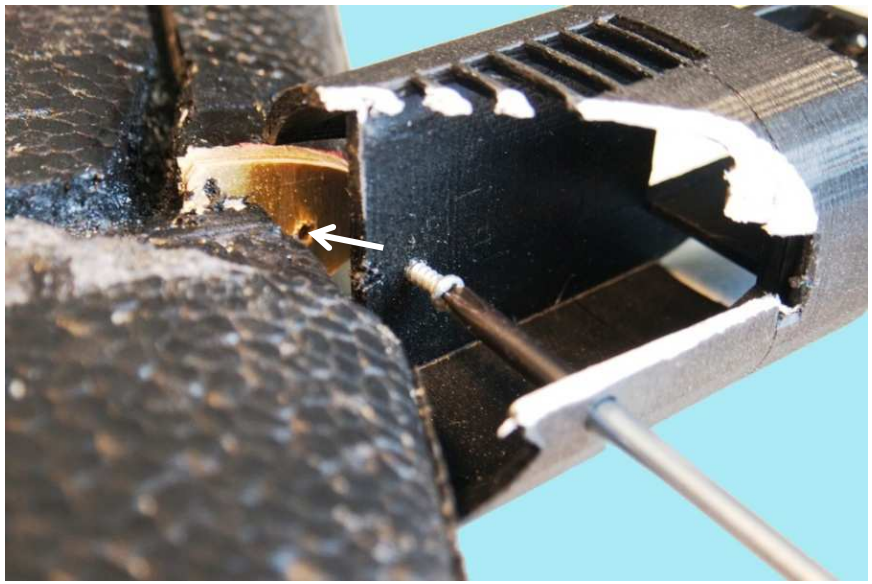


Mark the cutting in the wing for the reinforcement by plywood with the printed template.



A piece of plywood glued

Fix the motor carrier with 2 screws on the back on top and below the wing via a piece of plywood

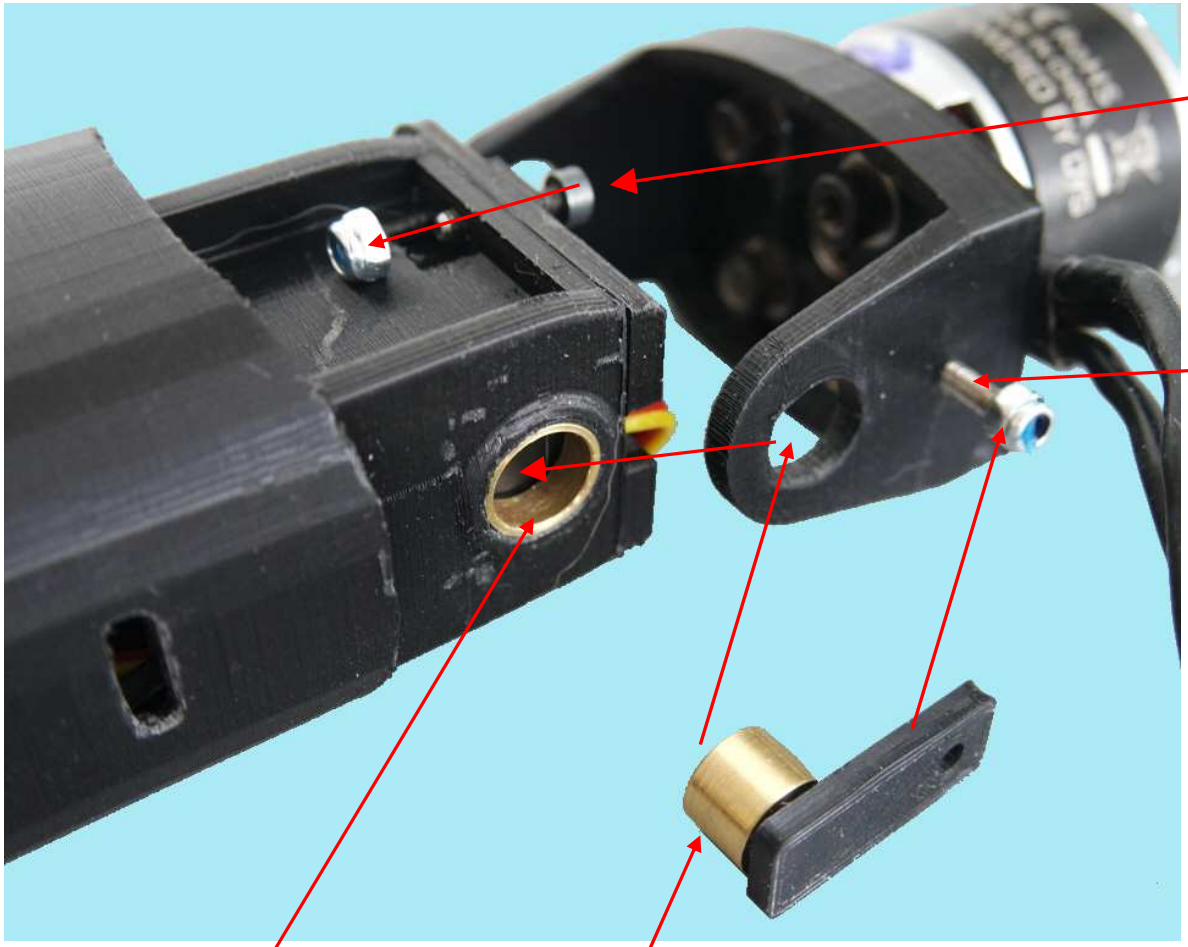


Fix the motor carrier with a screw to prevent it to rotate around the back screws

Cabling

Bevor assembling Motor and Base Unit, solder the Motor cable to the ESC.
To assemble pull the wires back and place the ESC under the cooling slots.

Counter bearing



2 Screws M2x8, with self-locking nuts

Screw M2x8, glued inside to hold while turning the self-locking nut

Piece of brass tube 8x7 3 mm long

Piece of brass tube 7x5 5.5 mm long

Final assembling

Second, slip the counter bearing over the Servo carrier.

First, set the hole onto the Servo axle