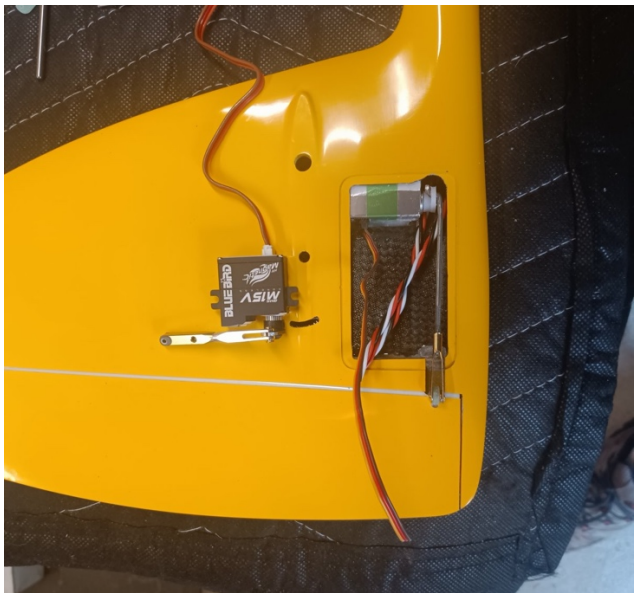
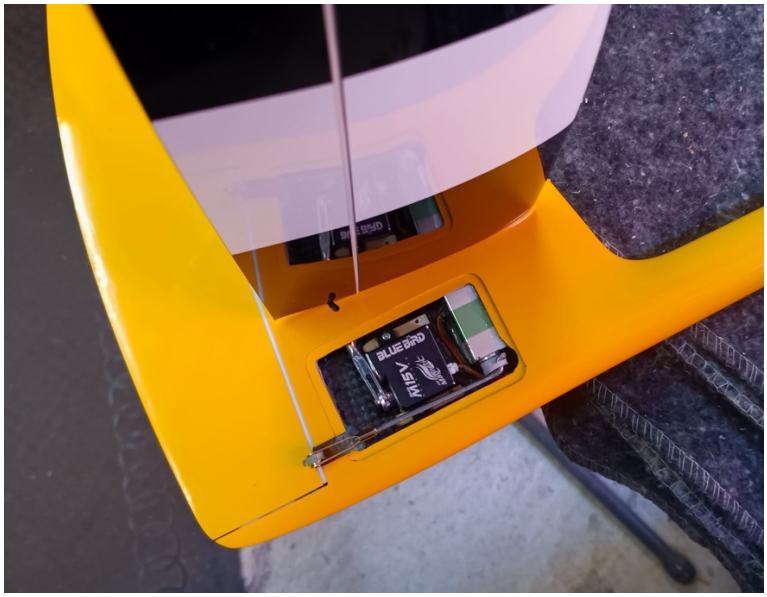
Steve Clasen's Aeroic E-model Build log. (Can be used to install the E-Corsa, E-Forza, E-Sessanta, and E-Toccata)

Hi Guys, I got this great chance to try out the first E-Corsa 108" and the E-Sessanta 60" from Red Jensen – Aeroic USA. These is the brand-new re-designed and re-moulded E versions of the Famous Corsa 108" and Sessanta 60" glider models, designed by Doc James Hammond.

So here we go:

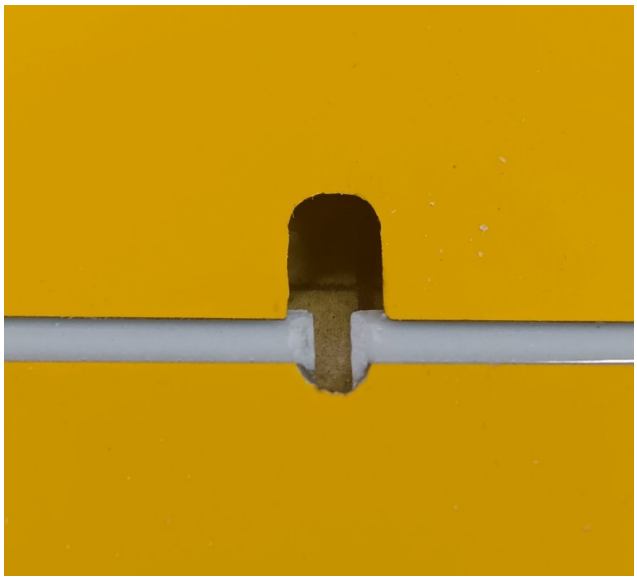
Fuse Servo installation. I would recommend 8 or 9mm servos in the tail but you can make it work with stuff that is a little thicker as I have done. My elevator servo is 10mm and the rudder one is 11.9mm. I used a Tomas Liu linkage for the elevator but the Z-bend or straight linkage and ball link method works fine too.



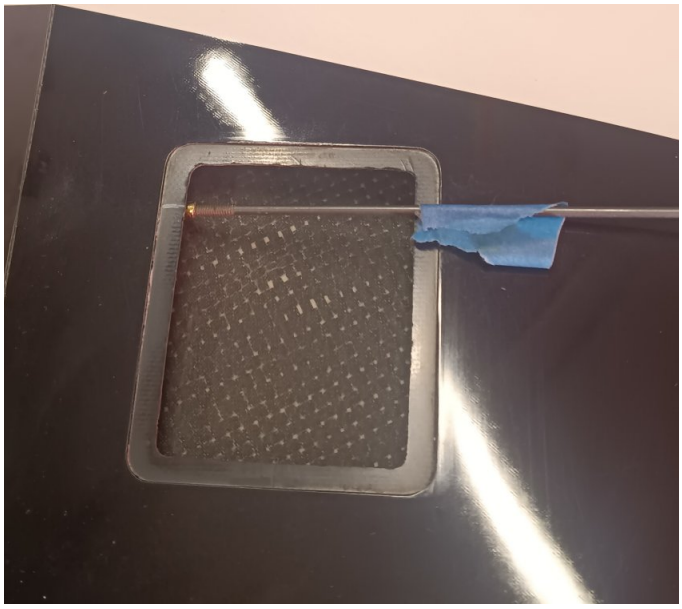


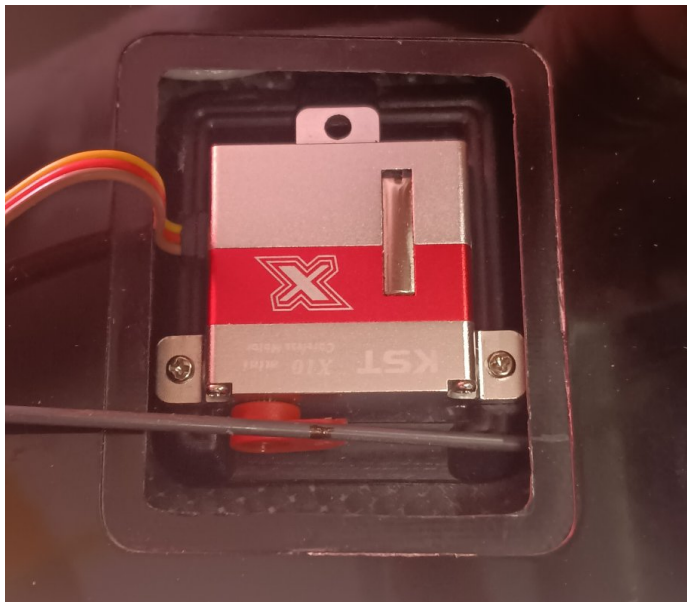
Here are a couple of pics of the Sessanta which is different from the Corsa or Forza tail installations:

Wing control horn installation. I use a rotary tool mostly and some of those permagrit type files to fine tune. I had the clevis on the horn when I glued it in. That way I know for sure it's in the right place.



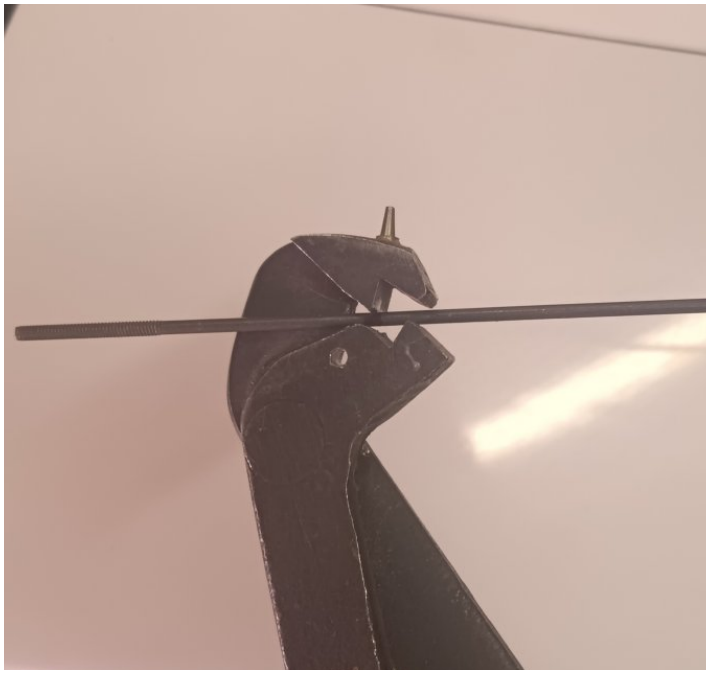
After the horns are glued in, I made sure they allowed full movement. I had a little epoxy get in the way of the hinge on one so I popped the clevis off and cleaned it up with my Proxxon. That's like a Dremel but in my opinion, so much better!

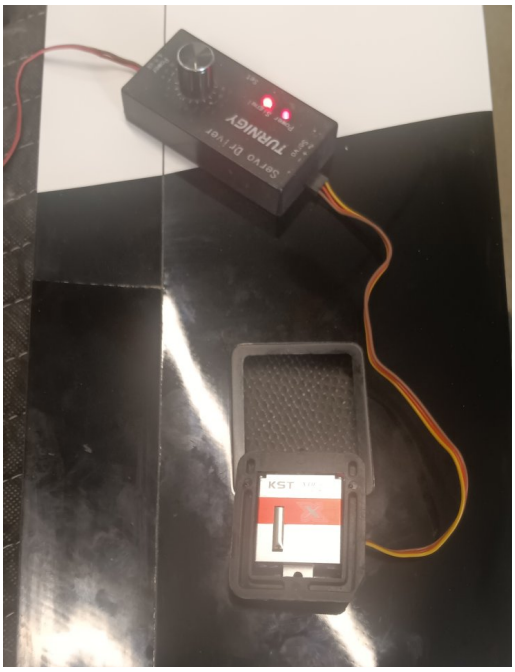




Next screw a pushrod in, move the control surface all the way one direction and mark the pushrod. I used tape. Then I move it the other way and see how far it moves. I measured about 10mm of travel on the flap pushrod, so that's how I know where to put the hole in the servo arm.

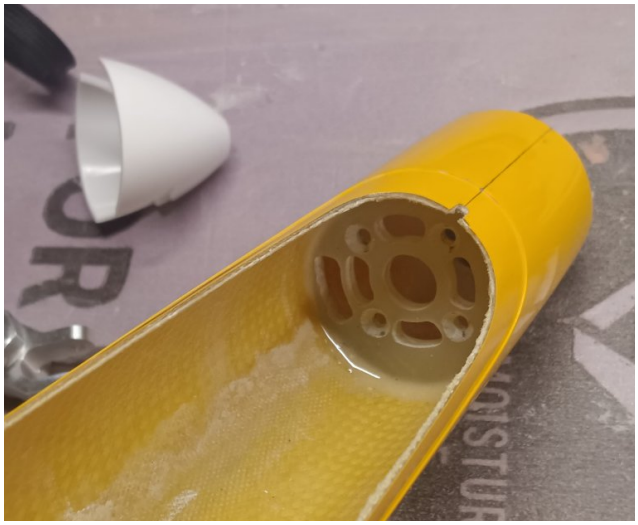
Drop the servo in the hole and mark the pushrod again to see where to put a z bend in it. With these short throws, you either need a z bend or something like Tomas Liu linkage because it allows you to have the hole really close to the output shaft of the servo. A regular clevis will hit unless you grind it out.





Once I dry fit everything to make sure the length of the pushrod is correct and the servo arm position on the spline is right, I flip it upside down and apply thickened epoxy on the bottom of the servo tray. The z bend is already hooked up on the servo, so once glued up, flip it back over and into the hole. I have a servo driver hooked up so I can move it if needed. Have some paper towels and some alcohol handy to clean up any mess.

Motor installation: I chose a Hacker A30 12xl that was in my cabinet. I like to mount Outrunners on the back so I pushed the shaft out the other end and cut some G10 for a mount. It's drying overnight using West System G flex epoxy.



Once cured I added pics with the motor in. Mounting this way keeps all of the spinning bits in front so the battery and wires can't get caught up in it. Flap servo has its bubble cover added.

Here’s the Grunt in the front all set up except for the battery.

Wiring harness installation: I made the Multiplex plugs on the supplied wiring harness auto engaging – but they can be left loose in the wings and just bonded in on the fuselage wing stubs if preferred.

Loads of room for all the electrics. Move the battery position to get the correct CG. No lead needed.

The very first E-Corsa - ever - is ready to rock and roll!

Control setups:

E-Corsa:

CG: 99mm

Control:	Up	Down	Crow
Aileron throws	17mm	6mm	Up 17mm
Elevator throws	6mm	7mm	Down 6.5 mm
Rudder throws	+35º	-35º	
Flap deflection	2mm	2mm	60º (or more)

E-Sessanta:

CG: 77mm

Control:	Up	Down	Crow
Aileron throws	10mm	9mm	Up 17mm
Elevator throws	6mm	5mm	Down 6.5 mm
Rudder throws	+35º	-35º	
Flap deflection	1.5mm	1.5mm	60º (or more)

E-Forza:

CG: 90~95mm

Control:	Up	Down	Crow
Aileron throws	17	10	17
Elevator throws	7	5	Down 6mm
Rudder throws	+35 º	-35 º	
Flap deflection	1.5mm	1.5mm	60 º (or more)

Note: Control deflections are measured at the point closest to the fuselage.

Note: Tomas Liu Servos, IDS systems and servo linkages are available from **Aeroic USA**.

This Build log can be used to install the E-Corsa, E-Forza, E-Sessanta, and E-Toccata as the methods and systems used are pretty much identical among these models.

Motor, prop and ESC setups: Of course, these are all up to the builder/flyer but serve to give some idea of what's needed for a lively performance.

E-Corsa:
Hacker A30 12xl (700kv)
ZTW Gecko 65A esc
4s 2200mah battery
13.5 x 7 folding prop.

Steve: This is a really good match for this plane.

E-Forza:
Dual Sky 3036EG outrunner, , and.
SkyWing 40A ESC
Tattu 4S 1800 battery
10 x 6 Aeronaut folding prop.

E-Sessanta:
Hyperion 3025-10 (775kv).
Hacker X-70sb pro esc
4s 1800mah battery
8.5 x 18 folding prop.

Dr. James D. Hammond – Aeroic.