



The EZ Laser is designed to be flown by beginners as well as experts. It has a wide flight envelope and can be flown very slow or very fast. The design is simple, strong, durable, and lightweight and uses simple two servo elevon control.

Typical power is a 1300 or 1700 kv Blue Wonder motor, but high kv quad motors can be used for those needing higher speeds as long as they are 25 grams or less. Batteries range from lightweight 450/3 to 600/3.

Note: With all up weight less than 8 ounces, FAA registration is NOT required.

It is designed to be assembled quickly without any cutting, sanding, painting or fitting and by using only hot glue. With the optional power package, everything is simple plug and play with no soldering required.

Specifications:

- Wingspan 24"
- Length 20"
- Approx. AUW 7.2 ounces, depending on power package used

Optional Power Package:

- Two 9 gram servos
- One 2730 1300 or 1700 kv Blue Wonder motor with bullet connectors, prop saver/o-rings and mounting bracket
- Motor mount mounting screws
- 10 Amp ESC with bullet connectors and JST connector
- 8 x 6 prop for 1300 kv motor or 8 x 4 prop for 1700 kv motor



Optional power package

Receiver, not included: Minimum of three channel with elevon mixing radio

Battery, not included: 450/3 to 600/3 with JST connector

Center of gravity: Even with the front of the servos to 1/2" in front of the servos

Tools required for assembly:

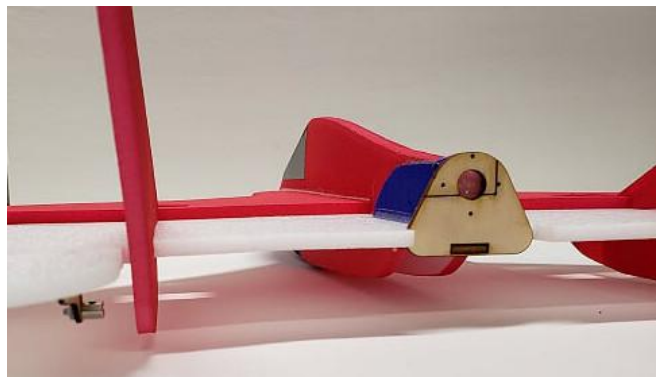
- Hot glue
- #1 Phillips screwdriver for servo arms and motor mounting screws
- 1.5mm Allen wrench (**included with kit**) for linkage stoppers
- One zip tie (**included with kit**)

Included with the kit:

- Wing, modified KF airfoil/wing doubler, carbon fiber spar, reinforced bottom fuse/battery mount, hinged elevons with horns/linkage stoppers installed, servos cutouts and two piece plywood motor mount **completely assembled**, painted and graphics applied
- Two fins
- Two 7.13" long pushrods with 3/4" plastic standoff guides
- One 1.5mm Allen wrench
- One zip tie

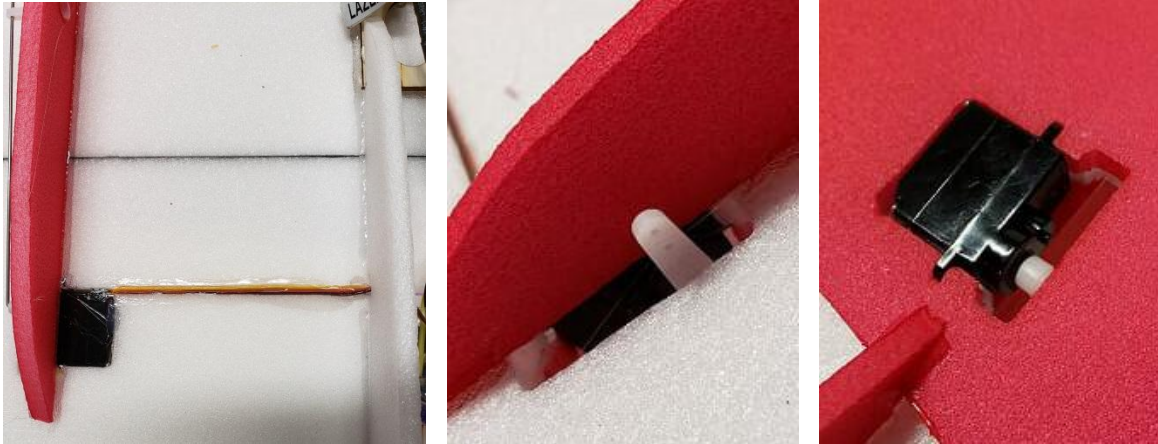
Assembly:

- Install fins using hot glue. **Be sure back of center wing remains flat and even with outer rear wing. Also, be sure fins are parallel with each other and centerline of plane.**



Fins installed

- Center servos with servo tester
- Using hot glue, mount servos with wires rearward and downward and arm downward



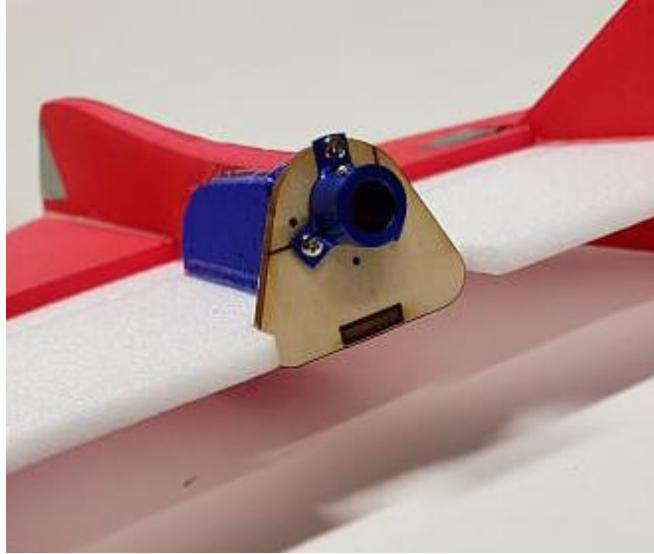
Mounted servo orientation

- Route the servos wires in the groove towards the center of the plane, secure with hot glue
- Place the white plastic standoff on rod, put "Z" bend in servo arm at the outer most hole, place the standoff in the hole, put other end of rod in linkage stopper. With servo arm at 90 degrees and elevon flat, tighten linkage stopper with the 1.5mm Allen wrench provided.
- Apply hot glue to the standoff. Let dry for a few minutes. Rod must be straight!



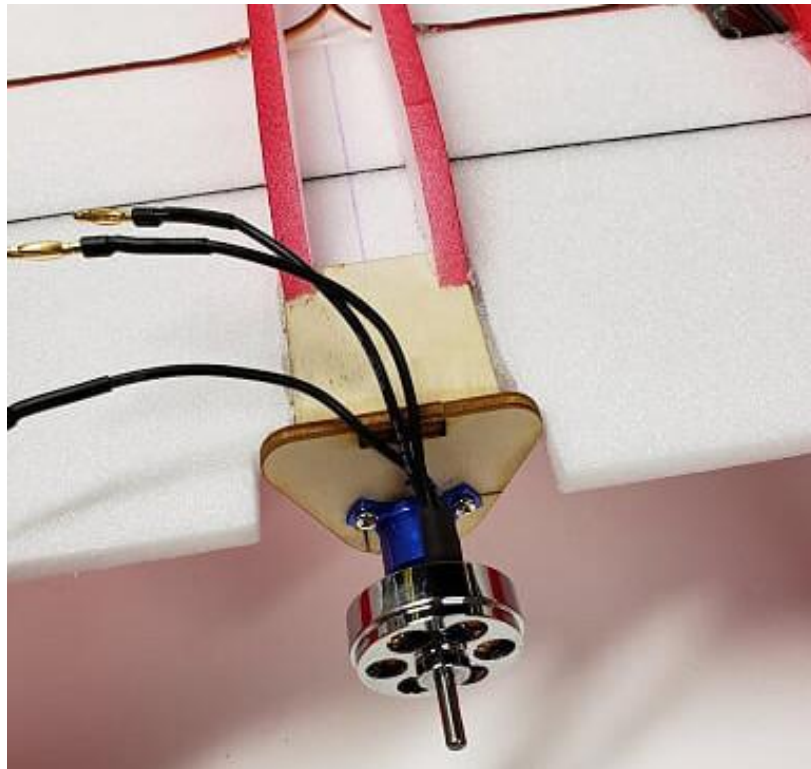
Servo arm, rod, standoff, linkage stopper and plywood horn installed

- Mount the motor mount with the screws provided. Setscrew should be upward.



Motor mount installed

- Slide the motor all the way into the motor mount with the wires downward. Tighten the set screw with the 1.5mm Allen wrench, do not overtighten!



Motor installed in motor mount

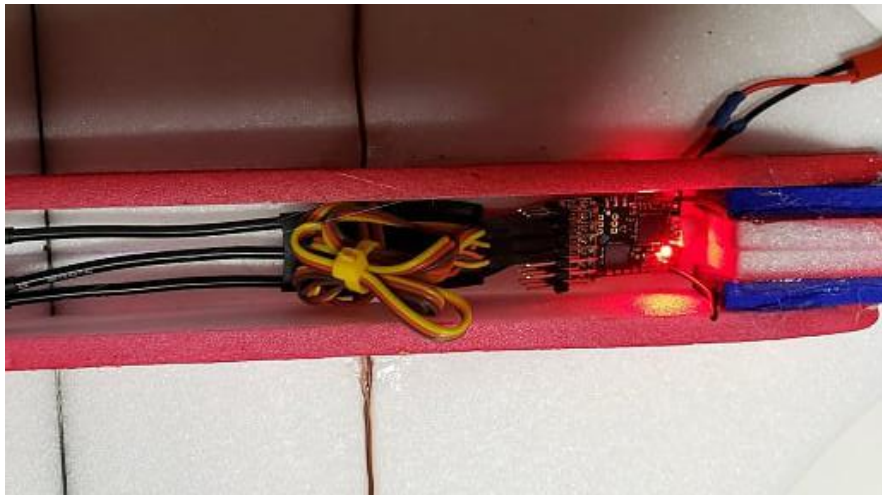
- Plug the three motor wires into the speed control.

NOTE:

Be sure the heat shrink is covering the brass bullet connectors.

If two of the wires short out, the speed control will burn up!

- Mount the speed control with hot glue as shown. Route battery connector through hole as shown.



Speed control and receiver installation

- Connect receiver, bind and program radio for elevons.
- Before installing the prop, check for proper rotation. Swap two wires if the motor runs backwards
- Secure motor wires with hot glue
- Secure servo wires with zip tie
- Set up the throttle cut in your radio
- Balance prop and install with numbers facing forward using two o-rings
- Set elevons for +/- 1/2" travel (total 1"). You can increase the throw once you become familiar with the plane

- Double check the CG
- This plane needs to be hand launched, see the various videos on how to properly hand launch RC airplanes!
- Have fun with your new E Laser!