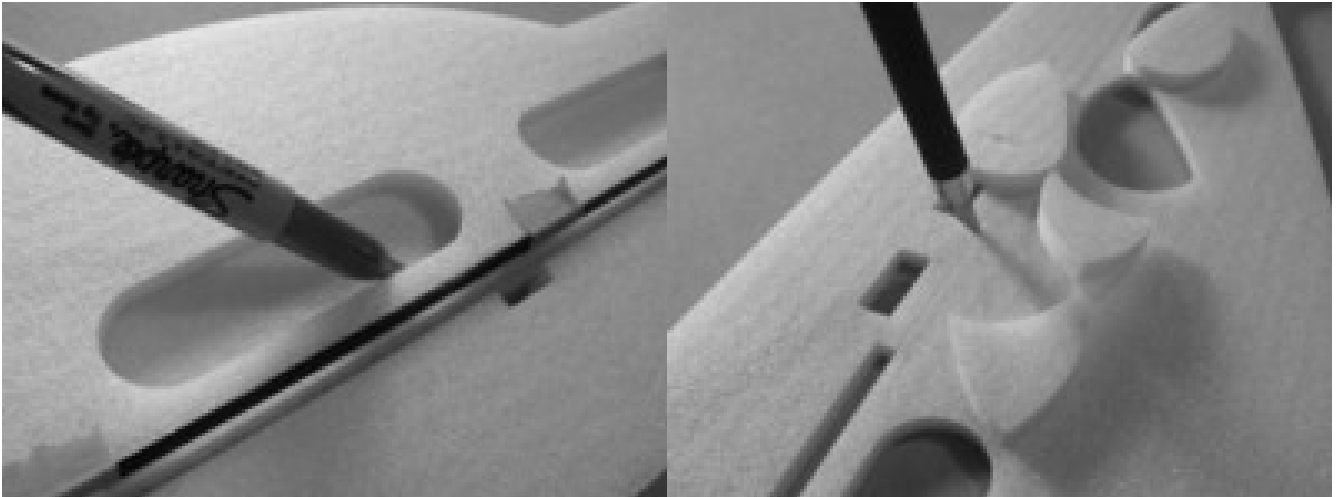


Light RC Yak 36''

- Color Plane
- Glue One Side of Fuse
- Insert Spars
- Glue Other Fuse Side
- Bevel Panels
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- Attach Wing
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- Install Battery / Set CG (@ front side of spar)
- Install Prop, Do Preflight Checks
- Be Safe Have Fun*

Color Plane

This is a simple statement that can be as complicated as you'd like... Solvent based inks, permanent markers, and cans of "short cuts" are popular choices.



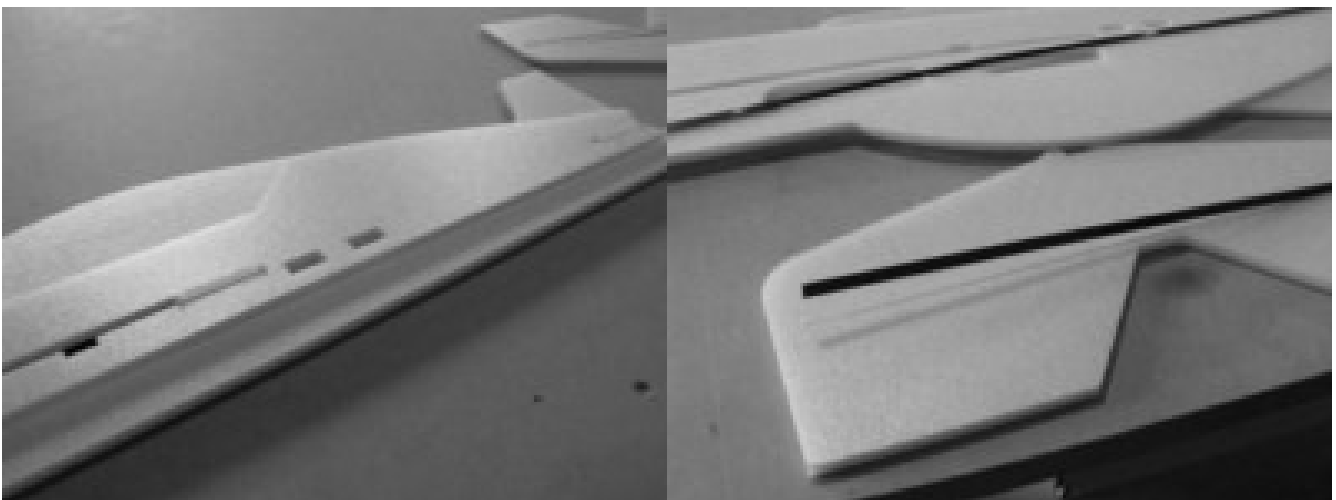
Glue One Side of Fuse

You'll need to glue in the fuse spar before both outer panels are attached... This step is intended for only one fuse side.

First Remove the wheel pant parts from the fuse center, and any other lightening hole parts that may remain. Then use a light color marker to trace the open areas in the fuse on to the outer panels, these areas will not need glue. In the remaining areas apply foam safe CA , or epoxy, to the outer panel and, using foam alignment blocks provided, align and place the outer to the center fuse. Proper alignment is very important and will effect fitment and wing stab perpendicularity.

Insert Spars

The wing and elevator both have tabs that are to support parts during shipping. These need removed to insert the spars. Insert the spars into the center fuse, elevator, and wing spar, use epoxy, foam safe CA, gorilla glue, or hot glue (low temp).



Glue Other Fuse Side

After the fuse spar is in, glue the other side of the fuse onto the fuse assembly. Again, take care to align the slots, use the foam blocks to aid in this.

Bevel Panels

Using your preferred method bevel the control panels. It is suggested that all four sides, top bottom and mating primary and control surfaces be beveled. Knife, router, sanding block, etc., are common methods.

Hinge Controls

Using the supplied tape, hinge the control surfaces. Hinging surfaces now, before assembling the plane is preferred. Apply tape to one panel first, lay panels on a flat surface, align them, then work tape into center of hinge and on to the other panel.

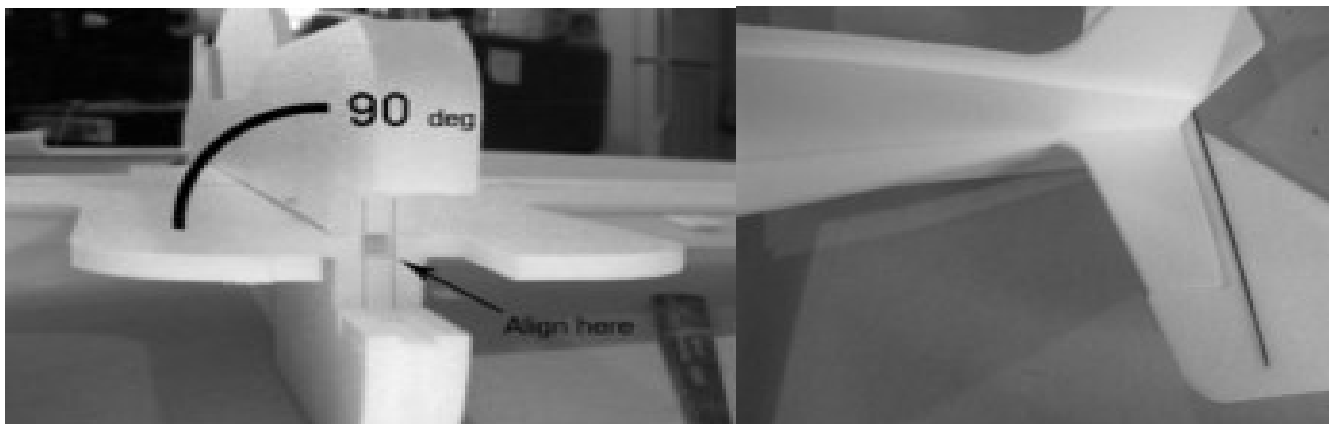


Install Control Horns

Pretty straight forward, glue them in. Usually with the elevator and aileron's horns down, rudder being on the opposite side of the fuse as the elevator. Foam safe CA or hot glue (low temp) works well. The point on the leading edge should be on the hinge line.

Attach Wing Assembly

The wing should now be ready to slide into the front of the fuse. The front of the wing will need aligned to the fuse, there is a notch left out of the wing for motor shaft clearance. This notch is also used to align the wing to the fuse. The rear of the wing has a notch that saddles the fuse. Slide the wing fore/aft to align the motor mount perch, and use a square to align the fuse to the wing as you glue. If no square is available you can use a CD case.



Attach Elevator Assembly

The elevator attaches much like the wing. Alignment is captured in the front and center the rear. Use a square to align the fuse to the vertical stab here as well. You can also attach shocky panels now(optional).

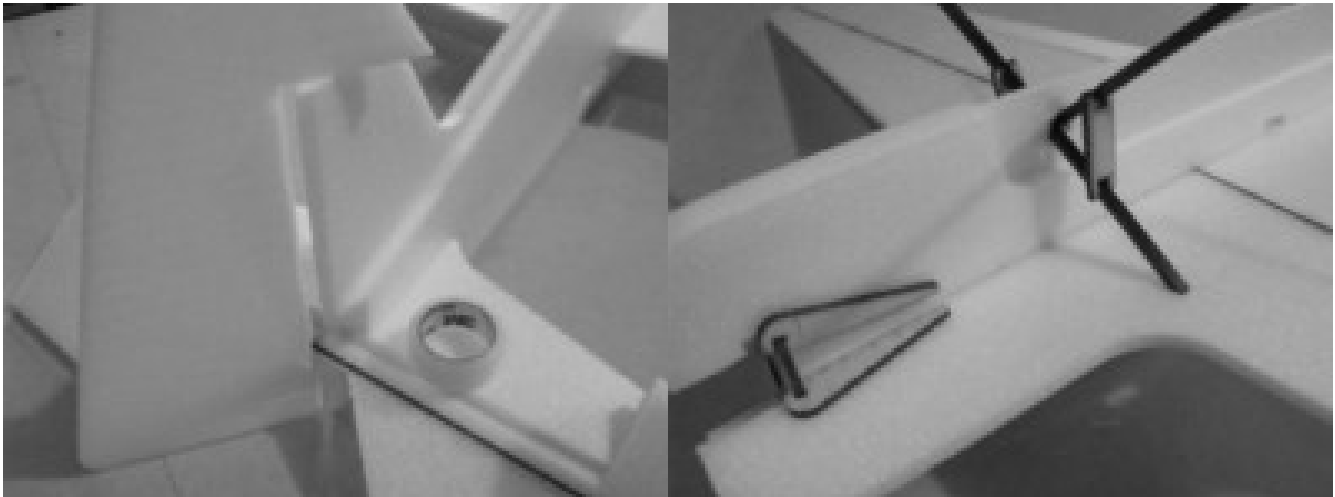
Attach Rudder

The rudder must be installed after the elevator is in place. Tape one side of the rudder, then hold the rudder with some deflection, while attaching it to the fuse. Then rotate the rudder the other way, taping the hinge.

Install Gear Legs And Bracing

The gear legs cross through the fuse directly under the lower fuse spar. Slide the spars through the fuse and temporarily set the gear supports onto the carbon tubes. As you can now see the tubes need to be resting flat against each other for the supports to slide on. Dimple the wings with the carbon tube where the small laser cut holes are.. Now swing on gear leg out of the way and apply a circle of low temp hot glue around the dimple, leaving a glob on the dimple. Then lower the gear leg into the dimple rotating it to line the glue around the leg. Quickly fasten the support (temporarily) to the leg to hold alignment as the glue cools. Repeat to the other side, then remove the supports to glue the legs to the fuse and each other. Once the gear is in place, glue the supports to the gear (doubled up) using CA (not foam safe)

Bend the wire as shown, in a tight "J" shape. The leading edge of the carbon will have the longer leg of wire sticking out. You can offset leg length differences using the wire, to level the plane to the ground. Using the supplied self adhering heat shrink, set the wire to the carbon. Allow the set to cool before setting it down. After the gear is cool, use a set of pliers to bend the wire parallel to the table/ground. Again you can level the plane by bending the wire differently to offset any build difference.



Attach Motor Mount And Bracing

Slide the motor mount on and test fit. Set the motor in place and check for interference between the motor shaft/collar, mount, and fuse. If all is well, glue the mount to the fuse, hot glue (low temp) foam safe CA, or epoxy, then glue the bracing around the mount and to the fuse(epoxy or foam safe CA). Use the mount bracing as shown, with four braces one the vertical fuse, and two on the horizontal(underside only) After all bracing has cured, glue the bracing to the mount(CA, not foam safe or epoxy).

Put in Electronics

Install servos(hot glue, low temp), RX and ESC (velcro or hot glue,low temp), motor(supplied screws), wait to install the prop until later. Power up the system, and center the servo arms, leaving the screws off the arms until preflight checks. Also check for travel direction before applying trims/subtrims.

Build / Install Control Rods

Create "Z" bends and build control rods. Start by attaching a bend to one end of the carbon, measure/mark, cut, then attach the other bend while the control rod is on the plane, taking care to keep the servo and control surface centered. To attach the bend, heat a section of the provided self adhering heat shrink around the bend placed on the carbon. A thin saw blade or other piece of steel can be used as a shield to keep from over heating the foam. If results are not satisfactory you can reheat the heat shrink.

Glue Tail Skid

Cut a slot into the fuse for a tail skid. Using carbon left over from the fuse spars, or control rods, (user preference) insert and glue in. Foam safe CA is suggested.

Install Foam Wheel Pants

These are two pieces, each side, that were removed from the fuse. Glue them together being sure to create a right and left side. Optionally sand and shape to foam before setting them. Slide the foam onto the gear and then a wheel onto the axle. Align the foam to the wheel, and apply low temp hot glue. Quickly set the plane on the table and realign the foam to the wheel as well as clocked to the table. Repeat on other side.

Install Battery / Set CG (@ front side of spar)

Start with the CG at least 1/2" forward of the wing spar, typical setups allow the battery to be mounted very near on CG. If your setup is different, please install the battery where ever needed to meet CG requirements.

Install Prop, Do Preflight

Recheck servo centers and travel lengths and direction. Program radio for rates and expos, check prop rotation direction.

Be Safe, Have Fun