5651 Old Dixie Road, Suite #103, Forest Park, Georgia 30297
404.363.6680, 404.363.6681 FAX, www.rcfoam.com

S-Bach 300

* CNC Cut from 6mm White Depron
* Carbon and Push Rods
* Engine Mounts and Plywood

Specifications	
Wing Span	867 mm (34.125")
Length	673 mm (26.5")
Wing Area	222 square inches
Wing Airfoil	Flat
Weight	4 oz. - 9 oz.
Radio	Micro Servos and Micro Receiver
Motor	24 gram 1500 - 1700 kv
Controller	12 amp ESC
Battery	3S - 610mAh Lipoly 20c or greater

Notes: * This kit requires a medium level of building skills to complete.
* This is not for beginning R/C flyers.
* Paint to your specifications!

This kits requires servos, a motor, a radio transmitter and receiver, a battery and a speed controller. Landing gear optional. Glue, tape and standard building tools needed. Visit www.rcfoam.com for power combo kits, paints, glues and materials to enhance your kit.

READ THIS IMPORTANT INFORMATION BELOW:

WARNING:

Please be aware that this airplane is not a toy and if assembled or used incorrectly it is capable of causing injury to people or property. WHEN YOU FLY THIS AIRPLANE YOU ASSUME ALL RISK AND RESPONSIBILITY.

If you have not flown this type of model before, we recommend that you get the assistance of an experienced pilot in your R/C club for your first flights. If you're not a member of a club, your local hobby shop has information about clubs in your area whose membership includes experienced pilots.

In addition to joining an R/C club, we strongly recommend you join the AMA (Academy of Model Aeronautics). AMA membership is required to fly at AMA sanctioned clubs. There are over 2,500 AMA chartered clubs across the country. Among other benefits, the AMA provides insurance to its members who fly at sanctioned sites and events. Additionally, training programs and instructors are available at AMA club sites to help you get started the right way. Contact the AMA at the address or toll-free phone number below:

Academy of Model Aeronautics
5161 E. Memorial Drive
Muncie, Indiana 47302
(765) 287-1256, Fax: (765) 289-4248
or via the internet at: http://www.modelaircraft.org

These are the glues mentioned in this instruction lesson.

Beacon Foam-Tac Adhesive
SKU 33-008

Beacon 3-in-1 Adhesive SKU 33-003

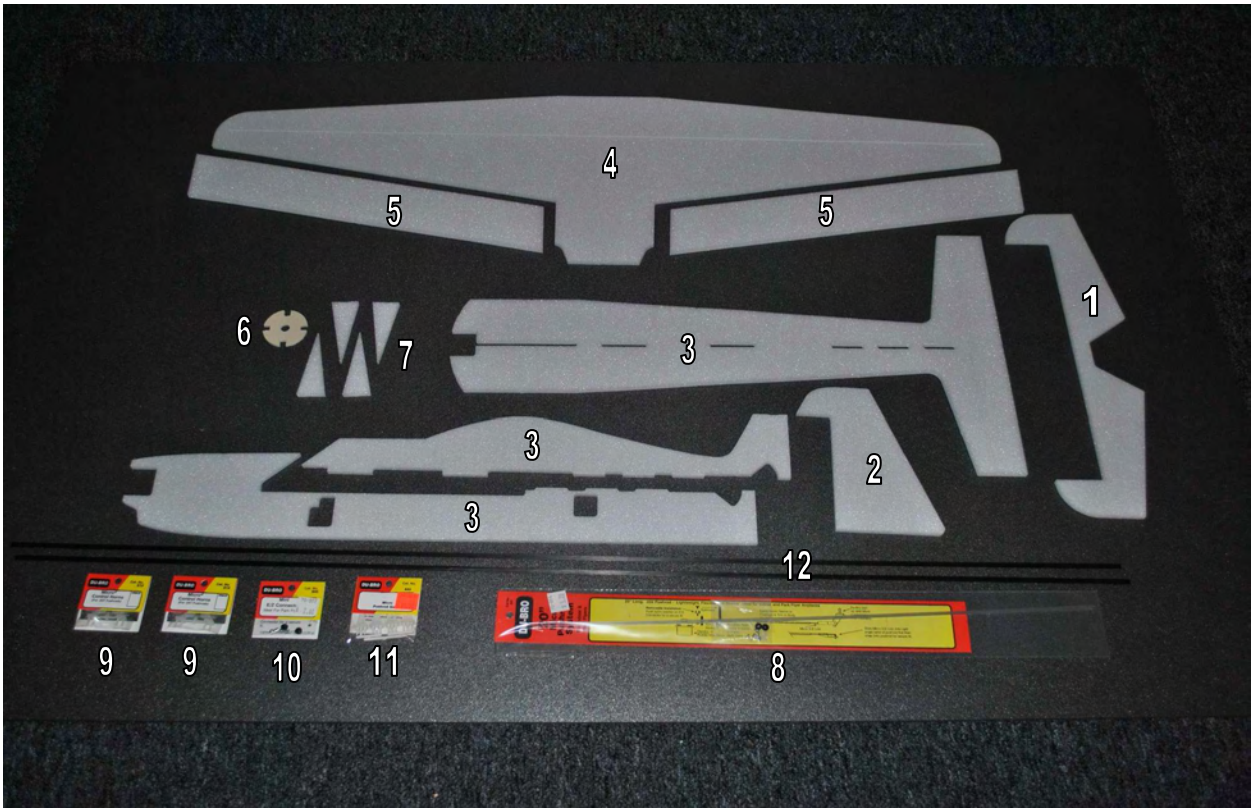
Loctite Epoxy Adhesive SKU 31-005

UHU POR Adhesive SKU 33-001

Loctite Epoxy Gun SKU 31-004

Loctite Gun Straws
SKU 31-00 or 31-007

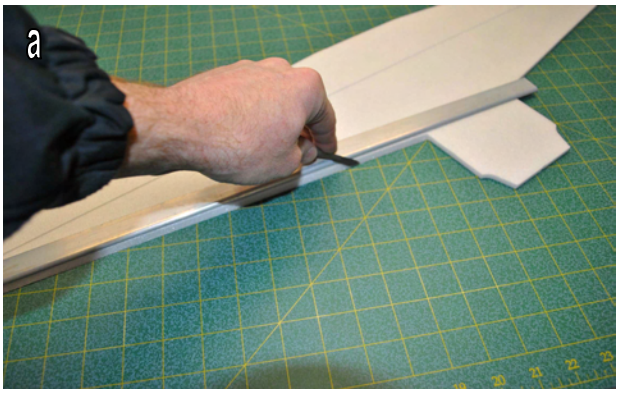
Sbach-300 Kit

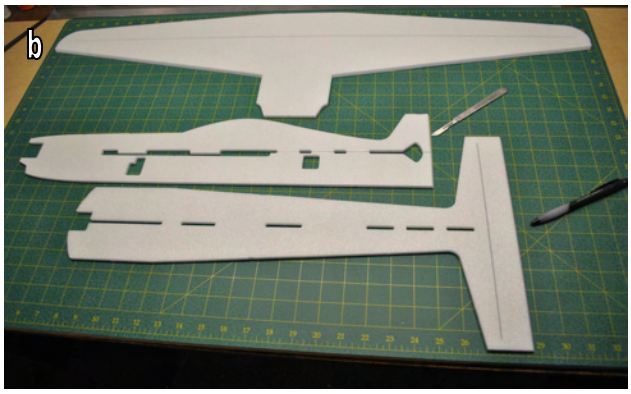


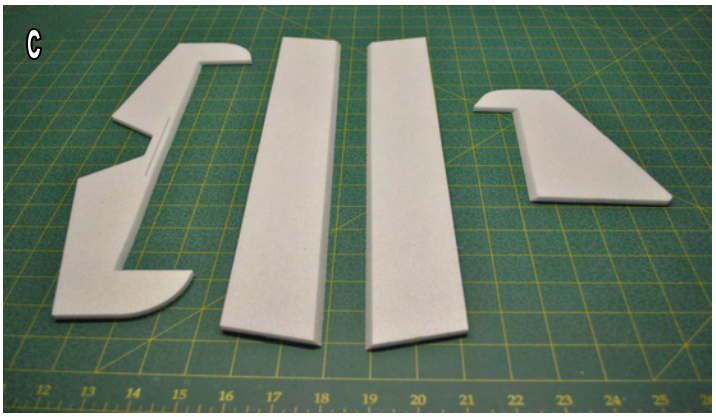
Parts included in Kit:

(SKU's provided for reorder)

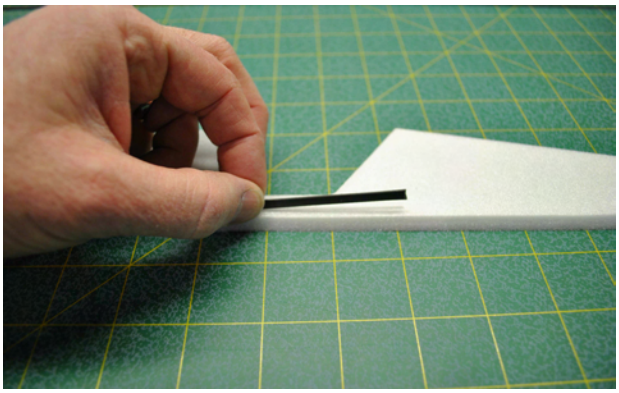
1. Elevator
2. Rudder
3. 3ea. Fuselage sections
4. Wing section
5. 2ea. Ailerons
6. Motor Mount, SKU # 50-100
7. 4ea. Motor mount supports
8. 1ea. Control rod set, SKU #7 0-004
9. 2ea. Control horns, SKU # 70-716
10. 1ea. Mini ez connectors, SKU #7 0-002
11. 1ea. Control rod guide, SKU # 70-020
12. 2ea. 39" carbon strips, SKU # 20-110



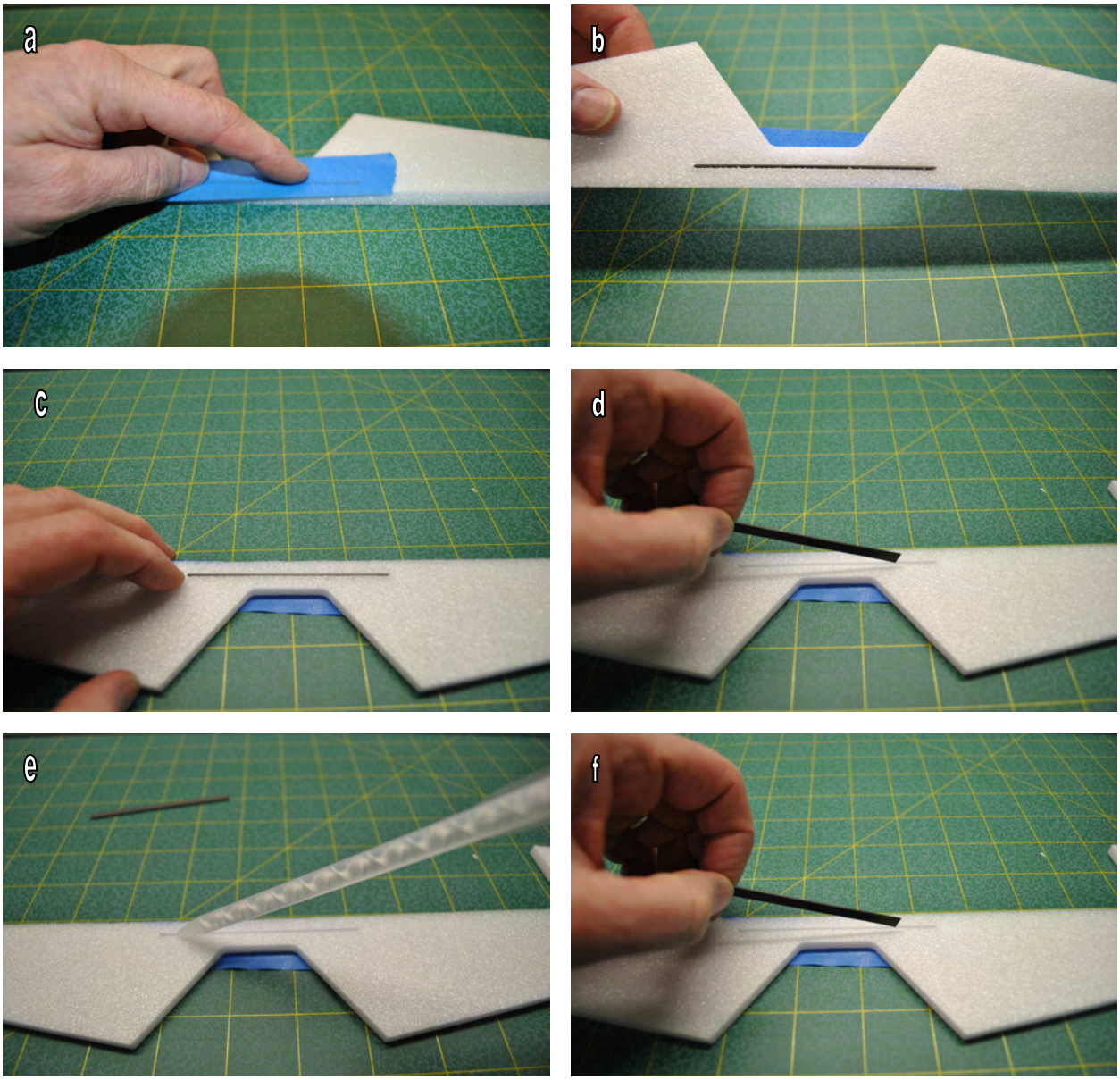




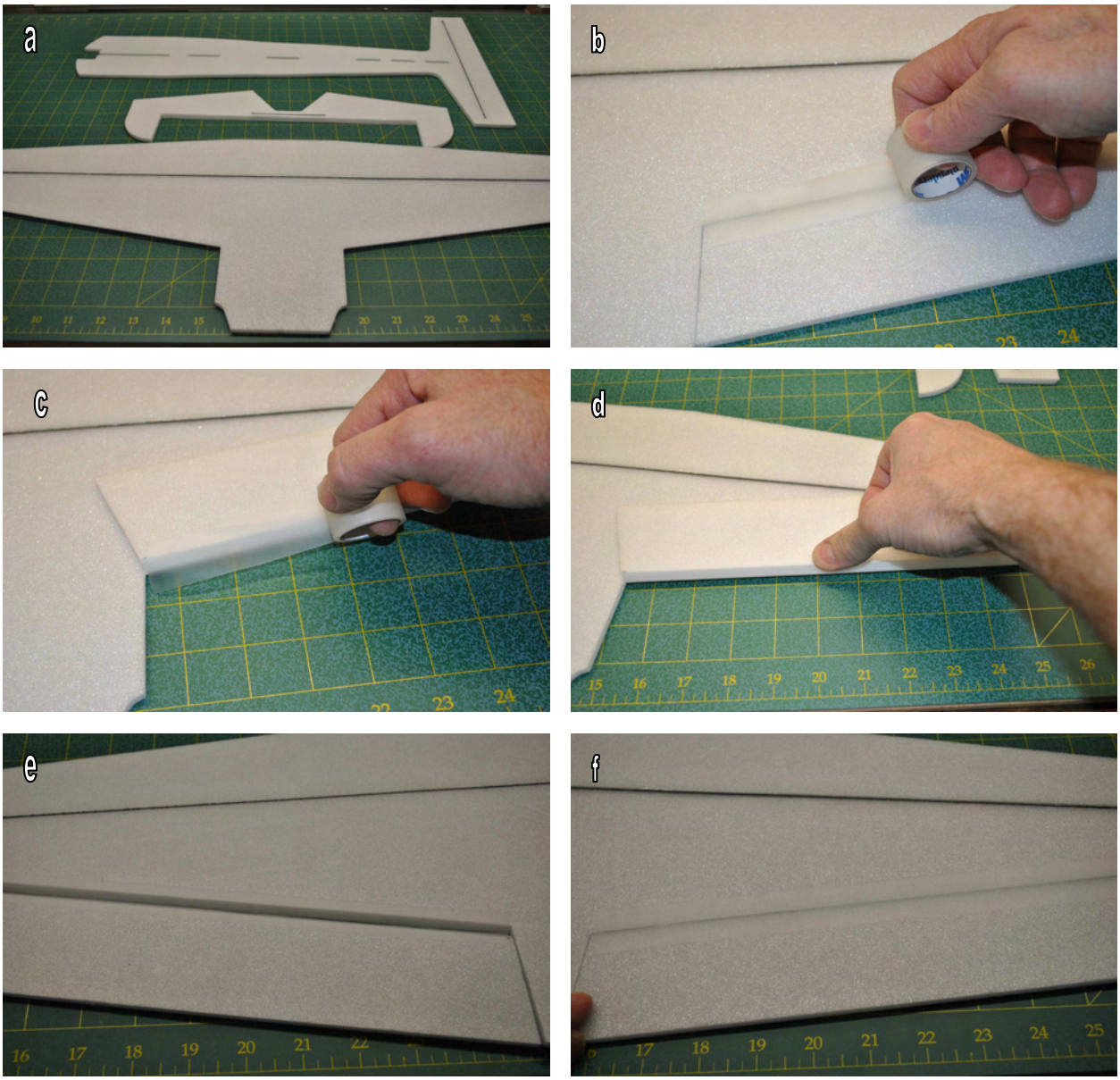
1.a.) Start by cutting 45 degree bevels on the aileron, elevator and rudder. b.) Then cutting 10 degree bevels on the wing and tail surfaces on the fuselage pieces. To cut the bevels simply use a hobby knife with a straight edge as a guide. Now would be a good time to do any cleaning up of edges and doing any sanding. c.) Final pieces.



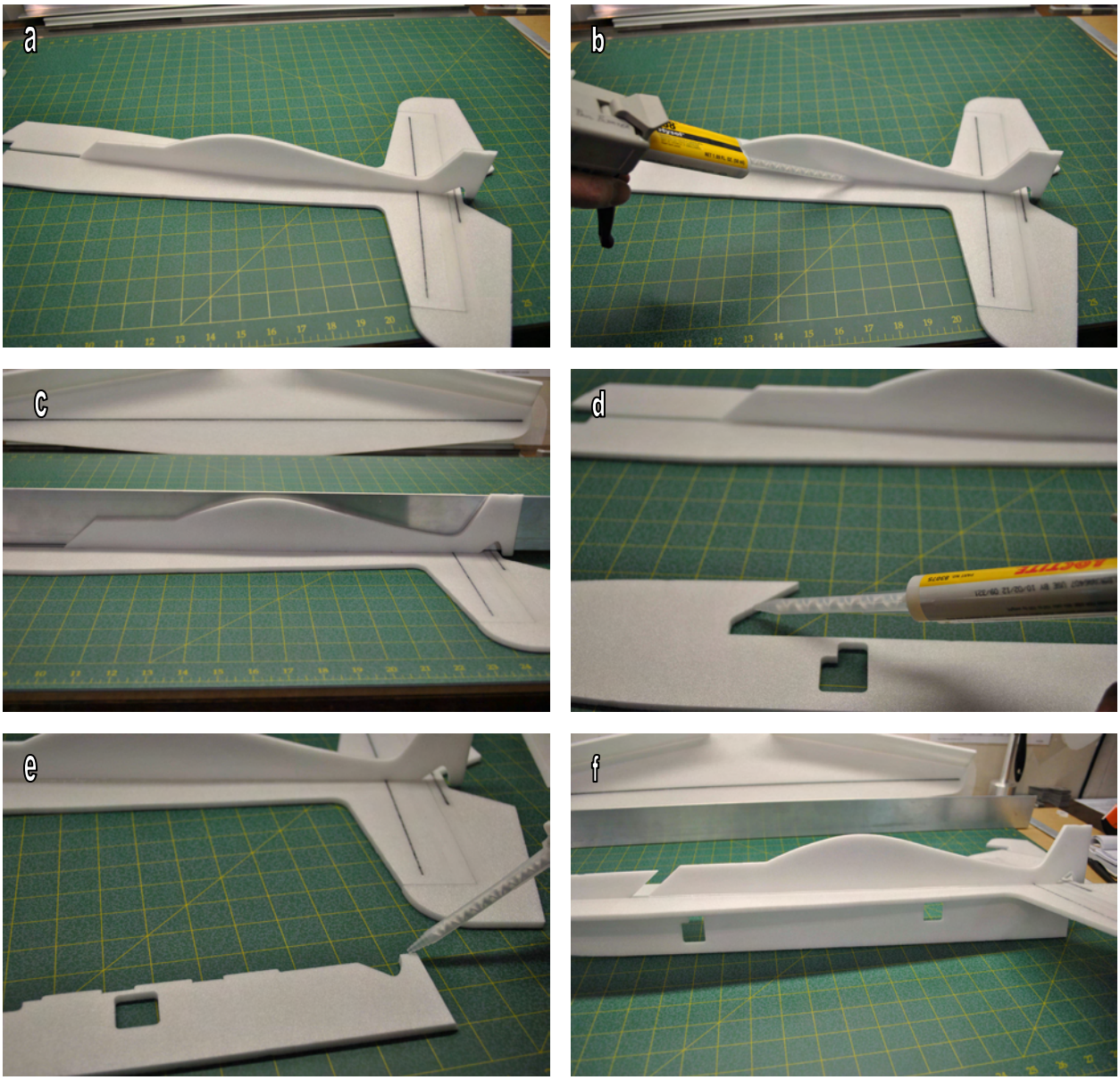
2. a.) Next you will want to cut your carbon to size for all the pre-cut slots on the tail, elevator and wing sections. You can cut them to size with a pair of wire cutters and then sand the edges. b.) Then test fit the pieces and insert them into their respective locations.



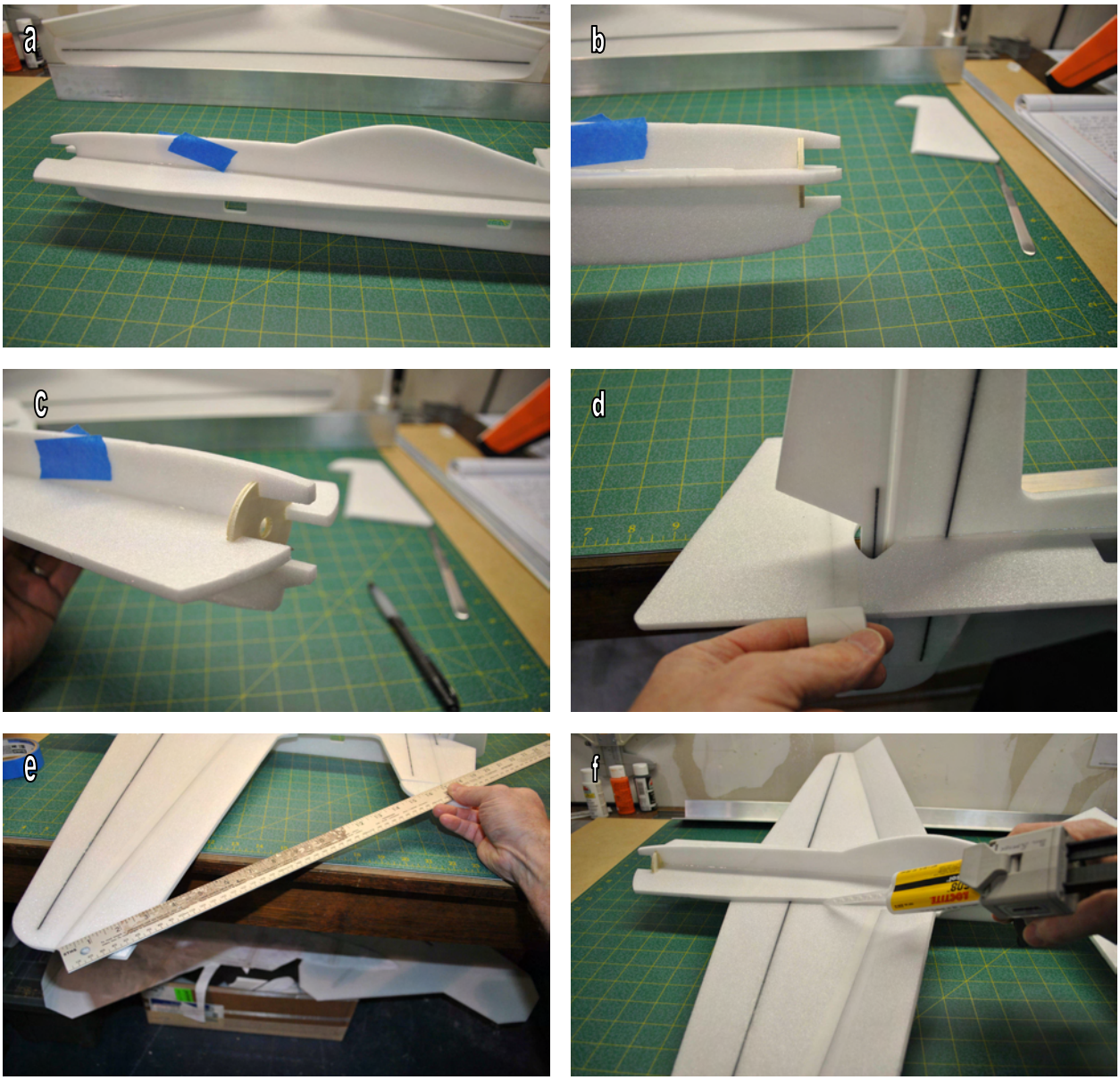
3. a.) Once you insert the carbon into the slot, apply painters tape to the opposite side (this applies to all the surfaces that take the carbon). b.-d.) Then flip the surface over and remove the carbon leaving the tape on the surface. e.-f.) Next apply a bead of 5min. Epoxy inside the opening and push the carbon back inside wiping the residual away. After this apply a piece of tape on this side also. Then lay weight on top of the surface so it will cure as flat as possible. After the epoxy cures remove the tape from both sides and apply a small bead of epoxy over both sides of the carbon and smear it flat so it will spread into the foam, this will bond it into the foam better for a more rigid cure. (Repeat this process at the other locations for the carbon).



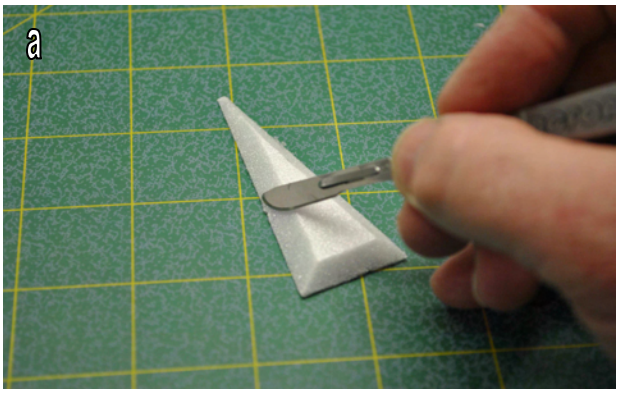
4.a.) Once the carbon is cured its now time to start preparing for the taping of the hinges. First you need the wing, ailerons, elevator and fuselage section with the tail incorporated in it. b.) First thing you want to do is lay the wing section in front of you bevel side down and the same with the aileron and butt them together. Holding them together run some tape over the seam from end to end. (Blenderm 1" Hinge tape from RCFoam). c.) Then without moving anything flip the aileron over onto the top of the wing and run a length of tape down the surface and cut flush with end. d.) Now tightly wrap the tape around the surface making sure you work the tape against the foam for a good bond and your done. e.-f.) Work the surface back and forth too loosen it up. (Repeat this process with the other aileron and tail surface).

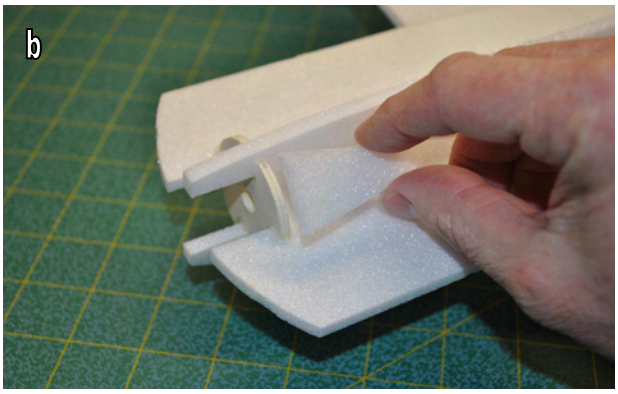


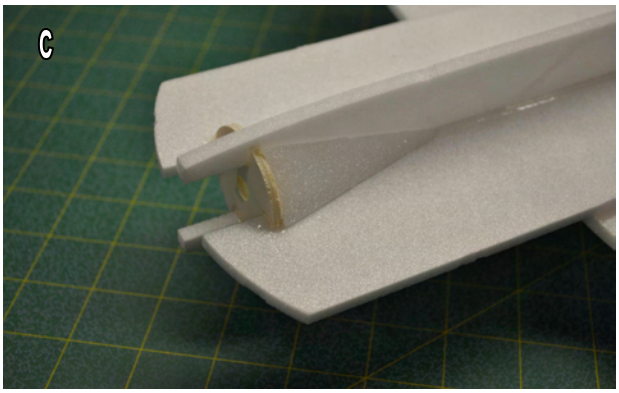
5.a) Now you can start the fuselage. b) Start with the upper and center surfaces, fit them together like so with your choice of glue such as UHU POR, Beacon 3in1 or a thin bead of 5min. epoxy. c) While the glue sets up make sure you have a right angle handy so you can make sure the two pieces dry at a 90 degree angle so the bottom section will line up perfectly. I used a piece of aluminum right angle because the weight helps also or you can tape into place. d) After the upper and center have dried you can glue the lower fuselage section on. Make sure you fit check everything before you glue, this will give you an idea where you need to apply the glue. e) Make sure you apply glue here also (aft of the tail). f) After you have applied the glue slide the lower fuselage section into place then apply blue 1" painters tape to the top nose area and tail section to keep them tight and aligned.

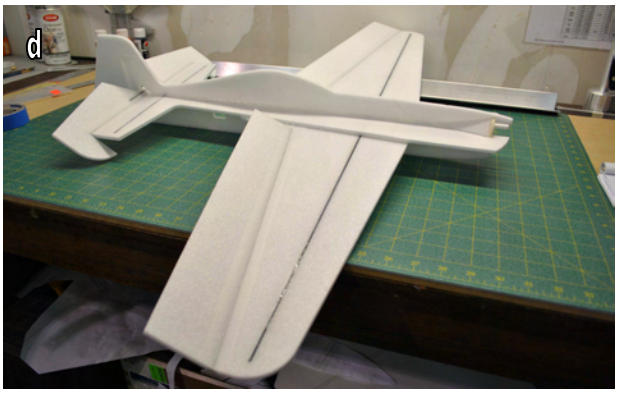


6.a) While the fuselage is drying you can go ahead and install the motor mount. b) Make sure when you install the motor mount that it is 90 degrees to the fuselage in all directions, this will determine the planes angle of attack flying. c) Because this is a critical area for torque you need to bond this area with 5min. epoxy or better. Apply the epoxy everywhere the mount contacts the foam for a good bond, this also helps align the nose. d) Once the fuselage is fully cured you can start installation of the rudder. (Install the rudder the same way you installed the aileron and elevator). On this installation you won't be able to fold the rudder back all the way like the others so you will bend it back as far as you can and feed the tape into the groove best you can. e) Next slide the wing assembly into the fuselage with the beveled side down. Alignment is done by measuring from the aft edge (trailing edge) of the tail to the aft edge of the wing, making sure the measurements are the same. This makes sure the wing is straight. f) Now bond the wing everywhere it touches the fuselage. I used a thin bead of epoxy, you can also use the other glues I mentioned early. We also carry the glue set-up used in this instruction booklet.

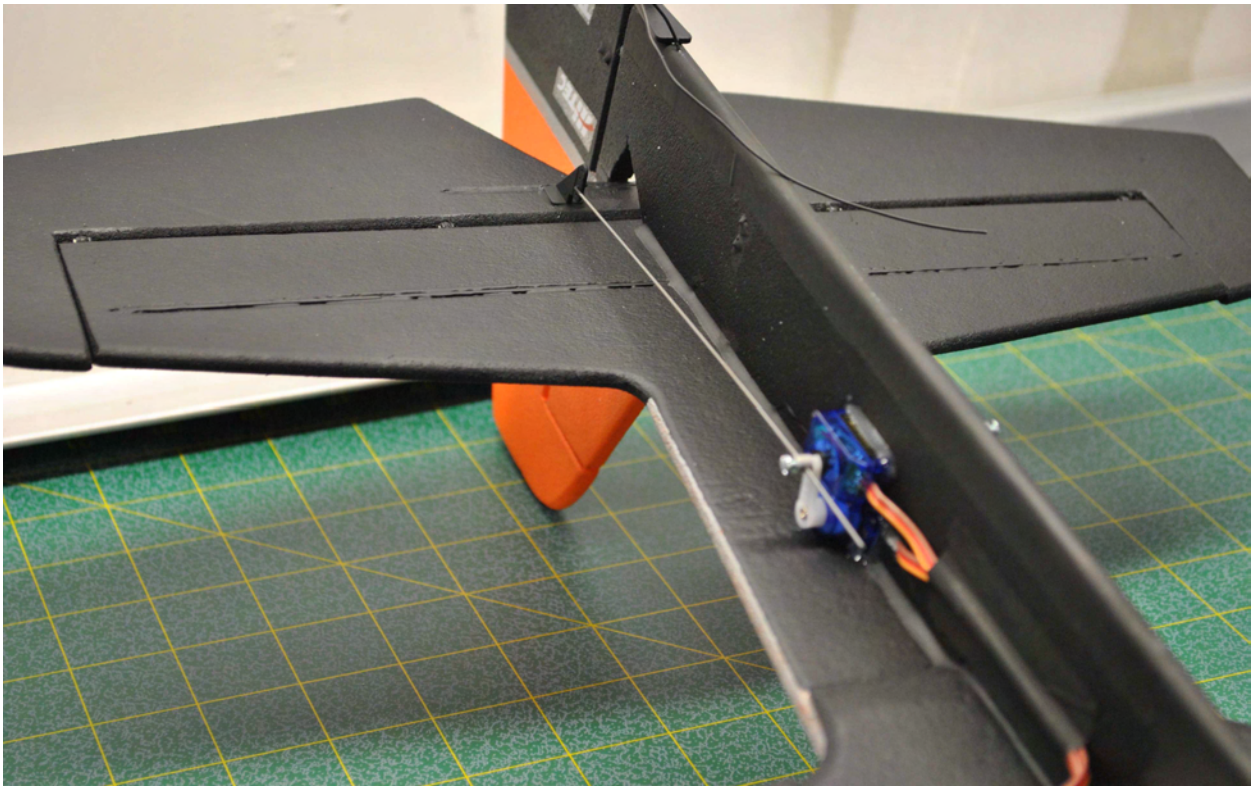




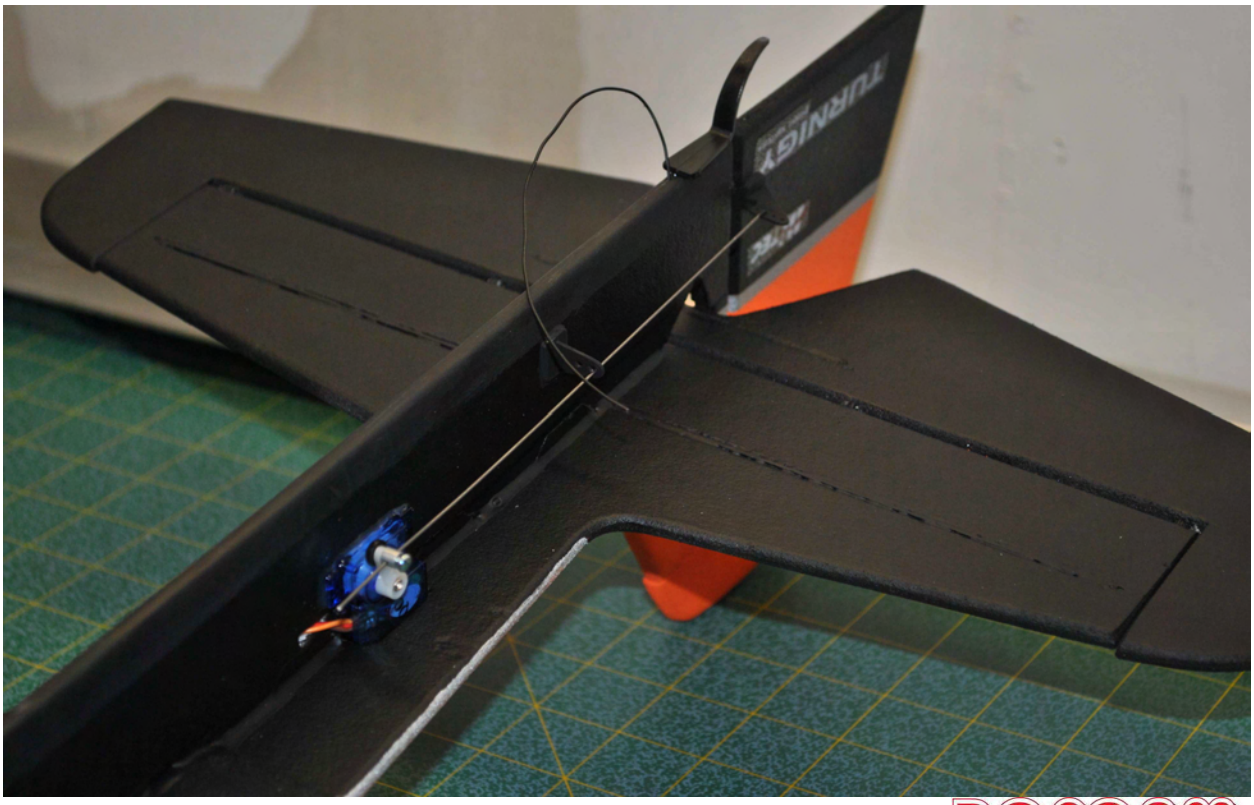


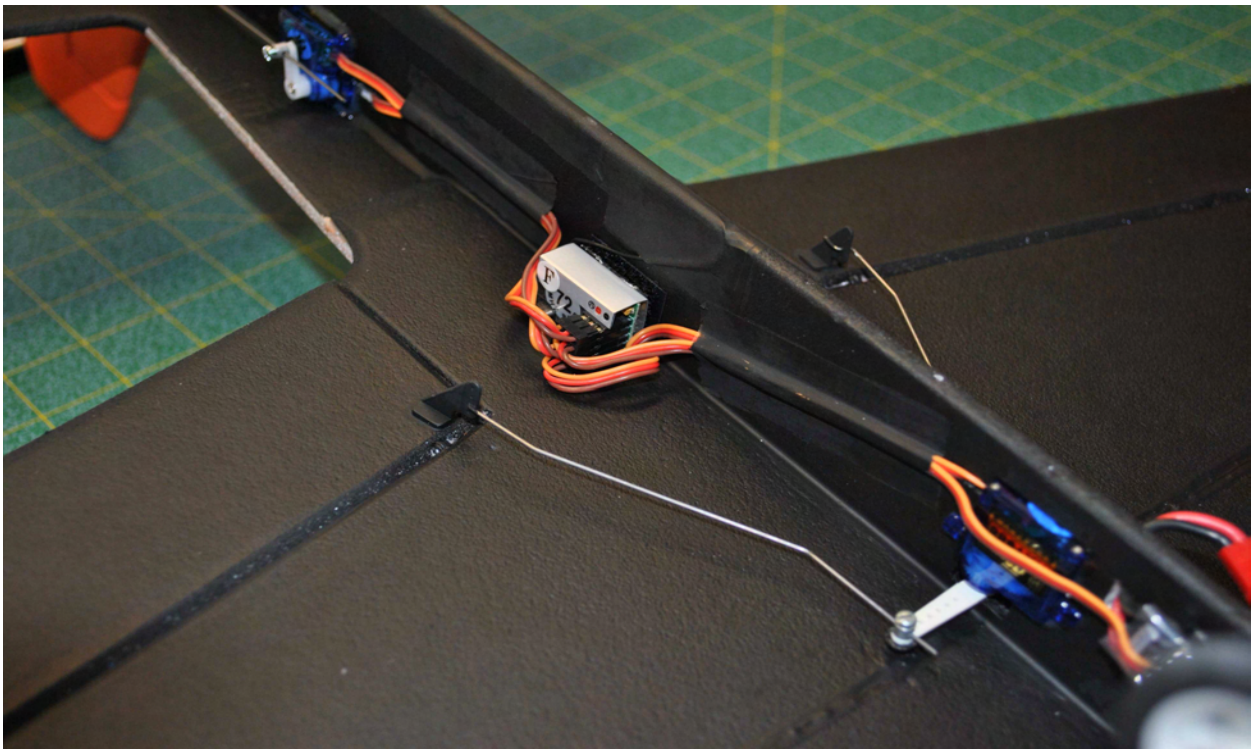


7.a) Now in this step you can choose to install the motor mount fairings if you like, the plane will fly fine without them but it does give it double strength and makes it look good. So if you would like to install them you need to bevel them carefully with a little more than 45 degrees checking fit as you go. b) Once the fit is the way you like it go ahead and bond them into place using the one of the glues I mentioned. I used epoxy on the whole airplane and the weight was fine. c) Here is the finished look. d) And then the plane is done making sure all the flight controls move freely. e) This is my plane and the paint job of the real S-Bach 300. In the next steps I will give you pictures of the component locations. Landing gear is an option and I will explain how you can install them.

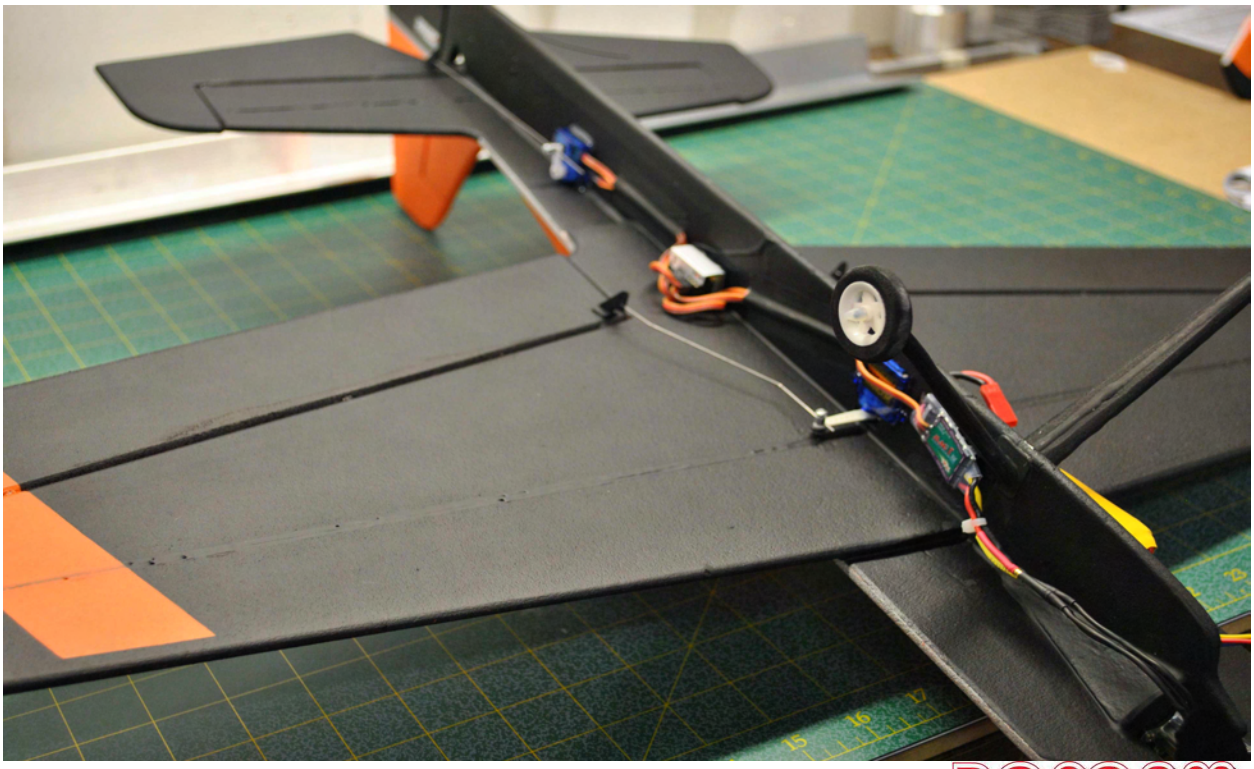


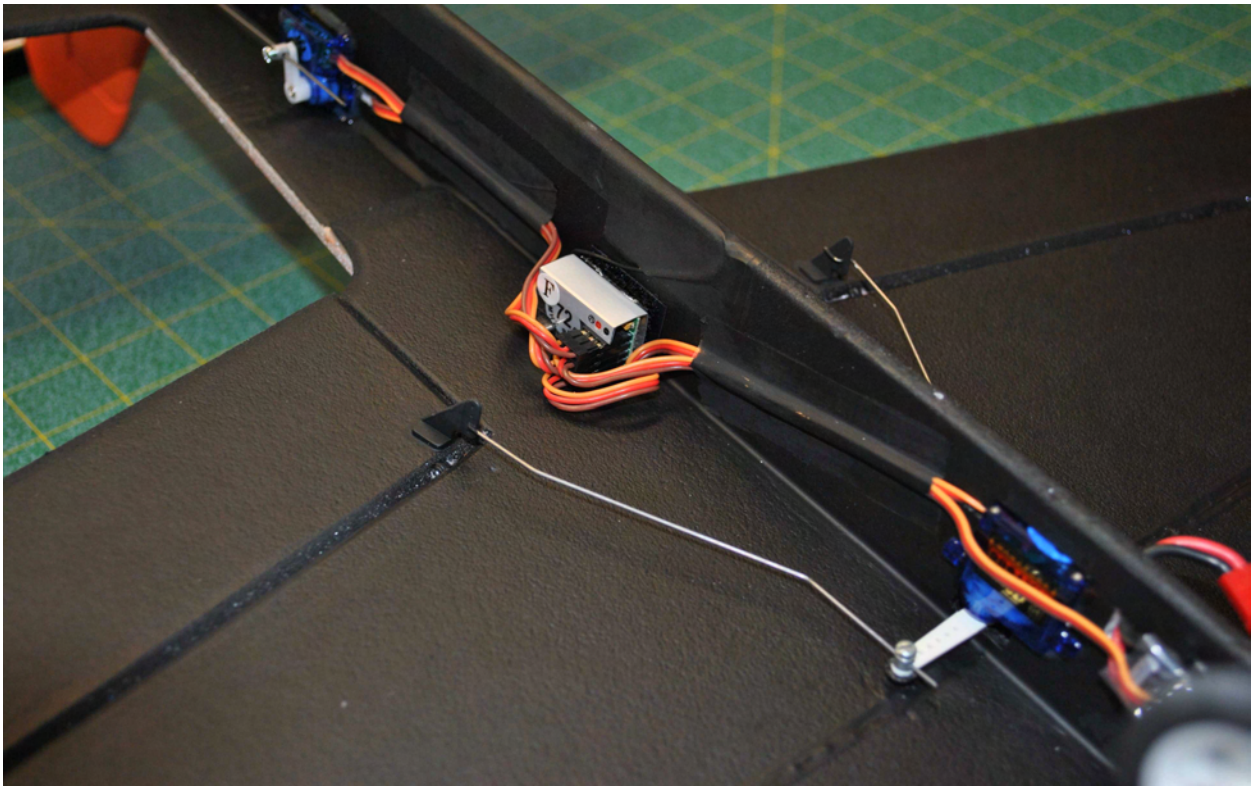
The tail servos are stacked in this way: Rudder servo faces to the right on the bottom and the elevator servo faces to the left on top. Also notice the placement of the control horns on the rudder and elevator.





The aileron servo is configured like this: This is a Dubro white long arm and the control horns are as far inboard as they can go with the horn holes lined up at the center hinge. The ez connectors are mounted to the aileron servo arm. The control rods are cut and bent to match up.





Here you can notice the placement of the receiver and below the placement of the (ESC) or speed controller. The Motor base usually screws on with 4ea standard screws.

Here is the battery placement on the right hand side just aft the motor. With the components in these locations you only need to move the battery within an inch for balancing. Below is a picture of the landing gear you can purchase separately and the tail skid. To install the gear just cut 2ea small squares of 1/16” plywood and bond to each side of the plane. Then drill the gear and mount with mini bolts and nuts.

Tail Skid SKU# 70-010

If you have any questions on the building of the kit please feel free to contact Paul Blymyer directly RCFoam.

You can also purchase a combo kit for this particular kit, which will give you everything you need to fly except the receiver and

Add a Power Combo Kit! SKU# 80-100, Just $67

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