Spad Extra



by Arlie Conner

Type: Sport/Aerobatic

Wingspan: 54"

Weight: 6 lbs.

Wing Loading: 23 oz. sq./ft.

Length: 48"

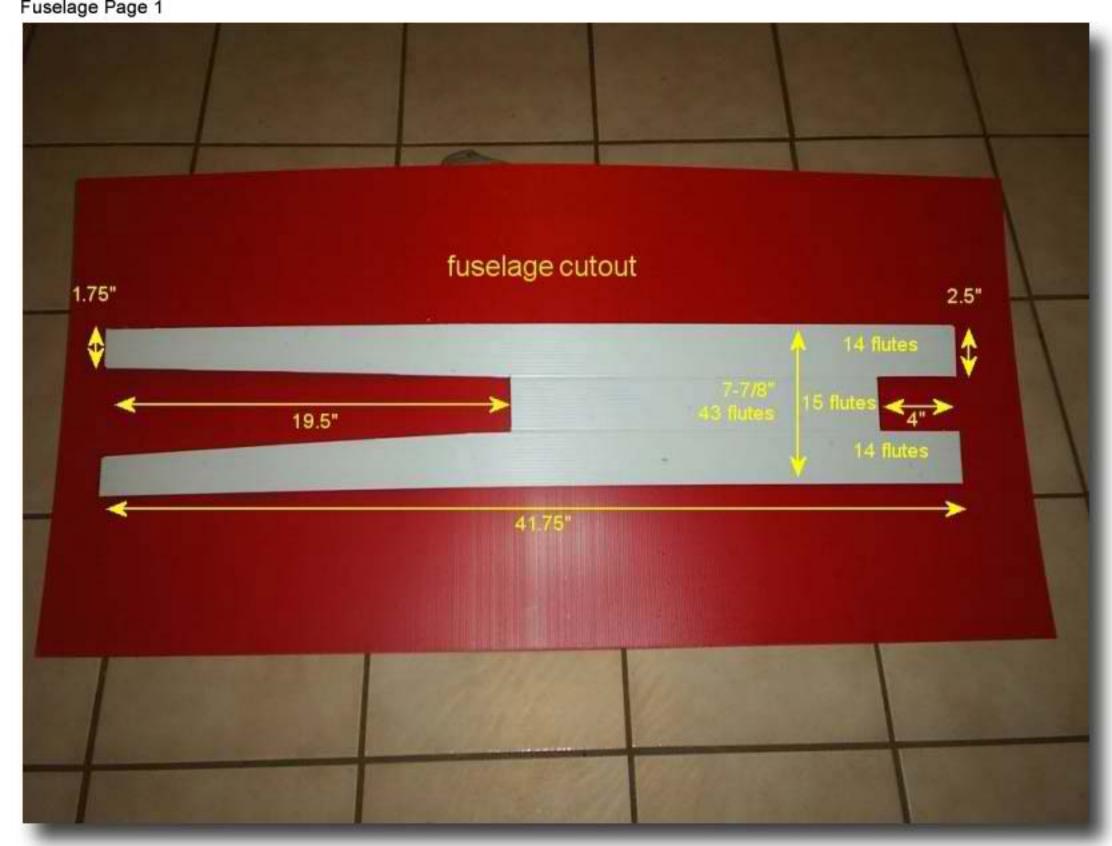
Engine: .46 - .60 2-stroke

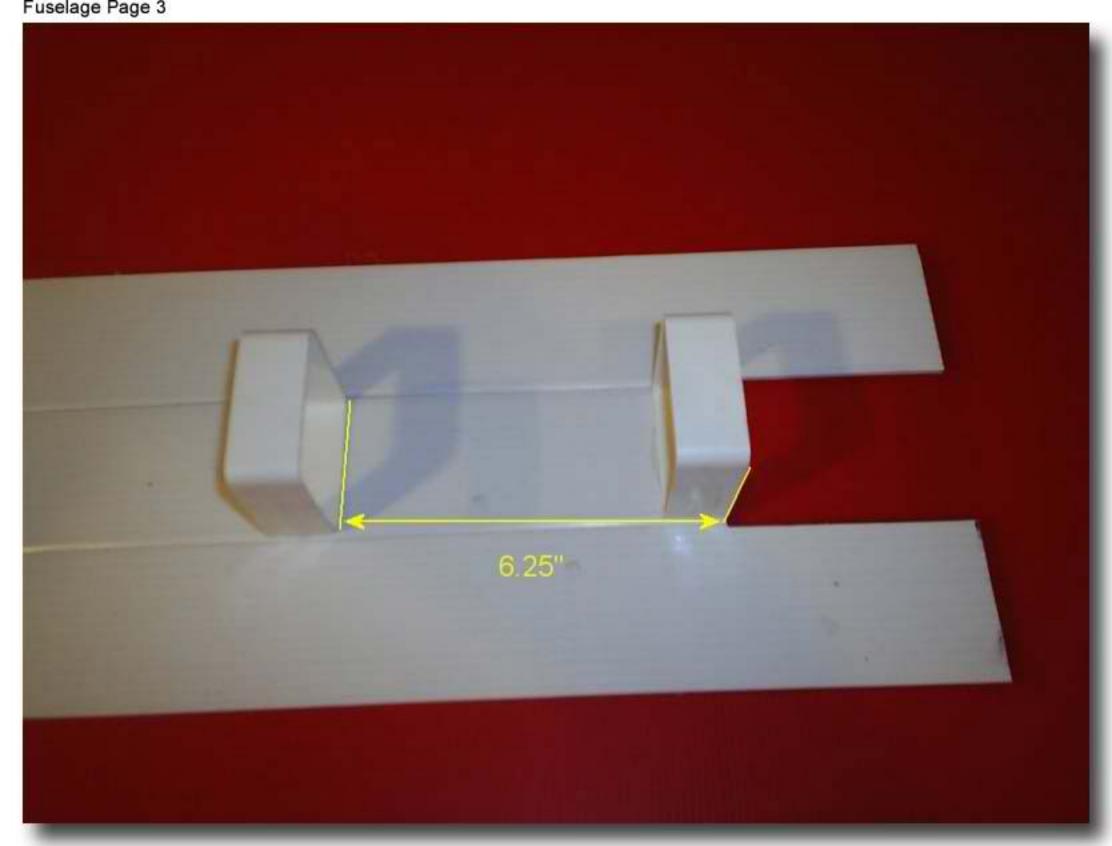
Radio: 4 CH w/ 5 servos

This plane was inspired by the Somethin' Extra and has almost the same flight characteristics. It is a bit heavier than it's balsa cousin but flies great inspite of that. It is not recommended for the beginner Spad builder but anyone who has mastered the basics will have no problem building this plane.

If the plans are followed and the same materials used you should have a good flying airplane. Any design improvements or ideas are greatly encouraged and please share them with the rest of the SPAD community.

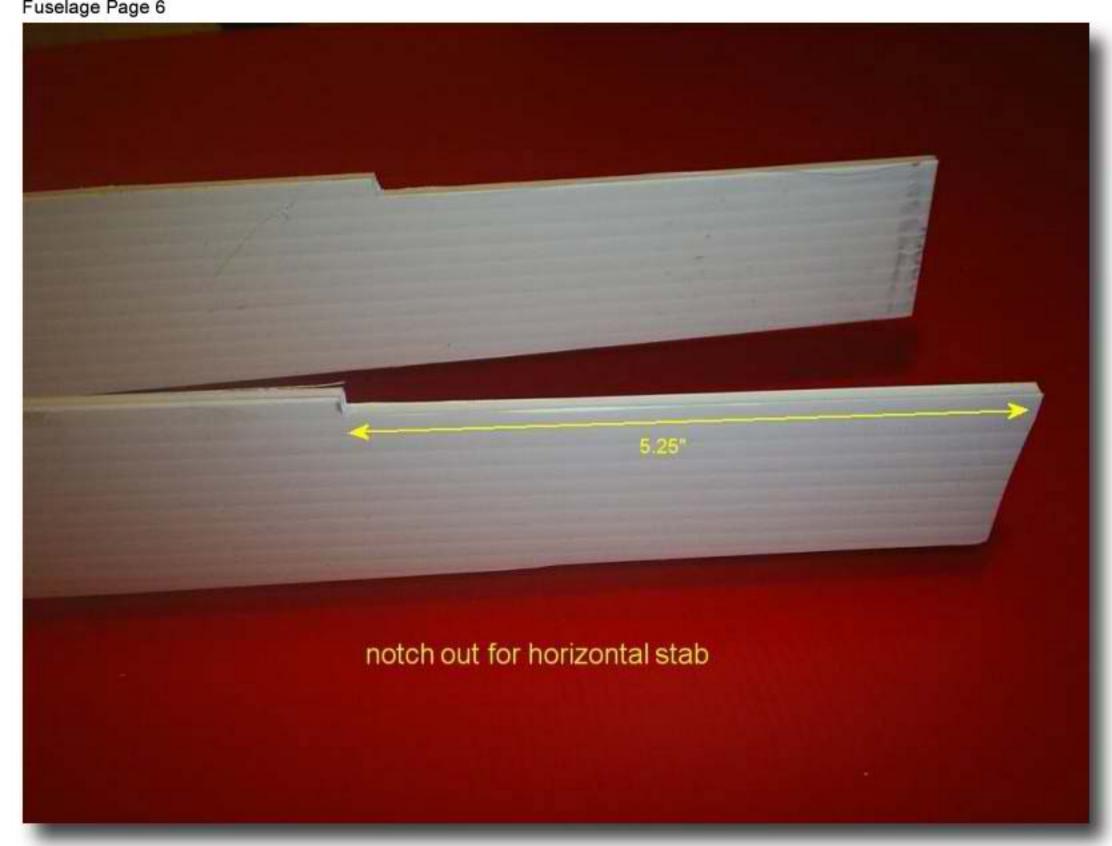
DISCLAIMER: The builder assumes all responsibility for safe operation and airworthiness of this model!



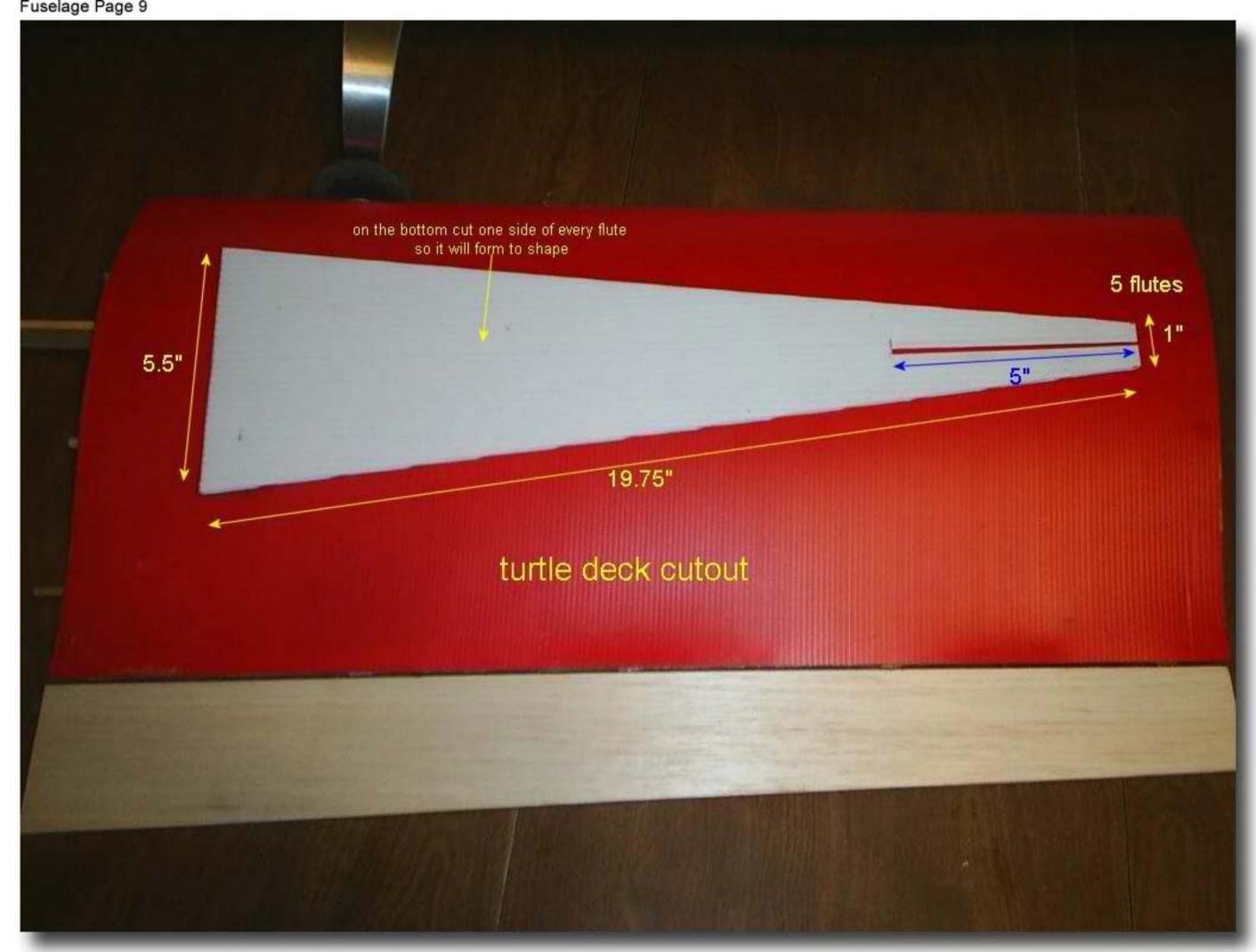


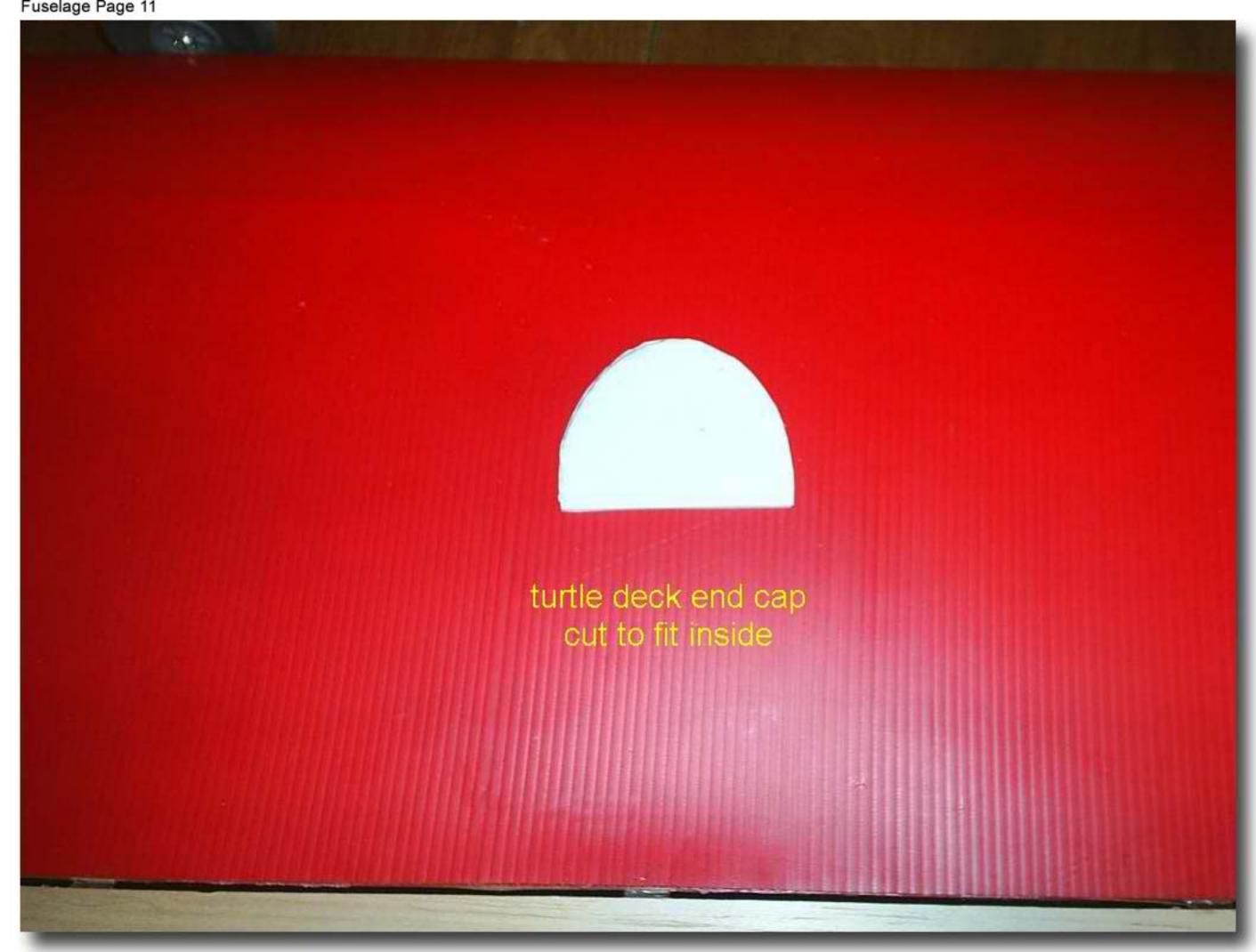


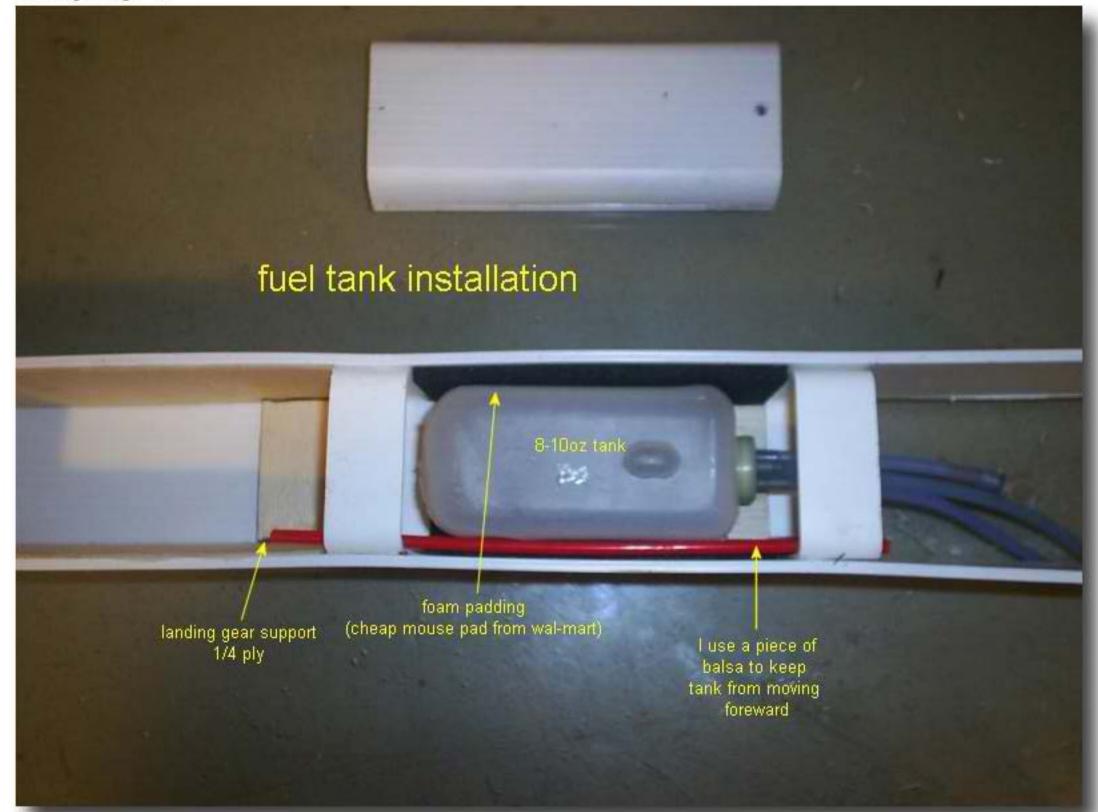
Fuselage Page 5 tail section



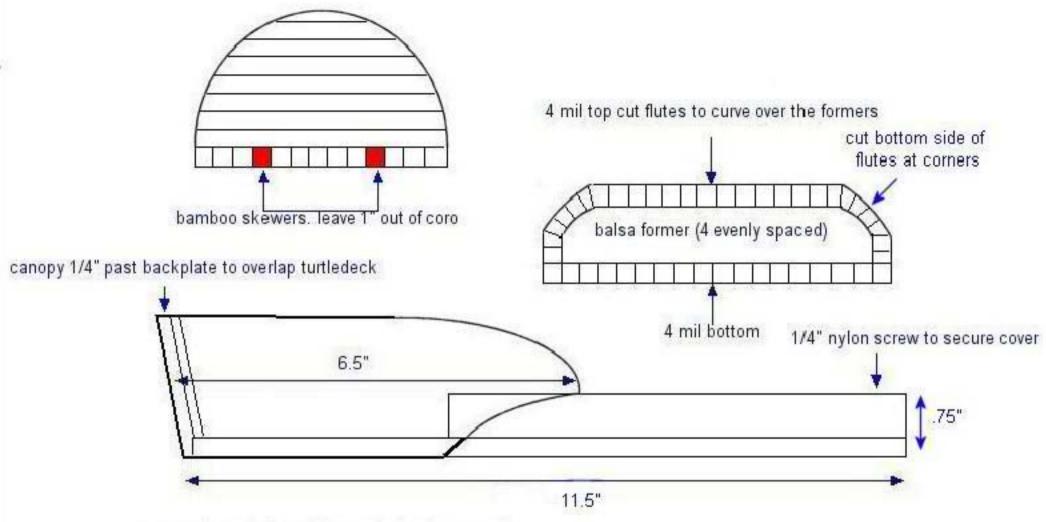
Fuselage Page 7 1/16 plywood trim to fit servo bay





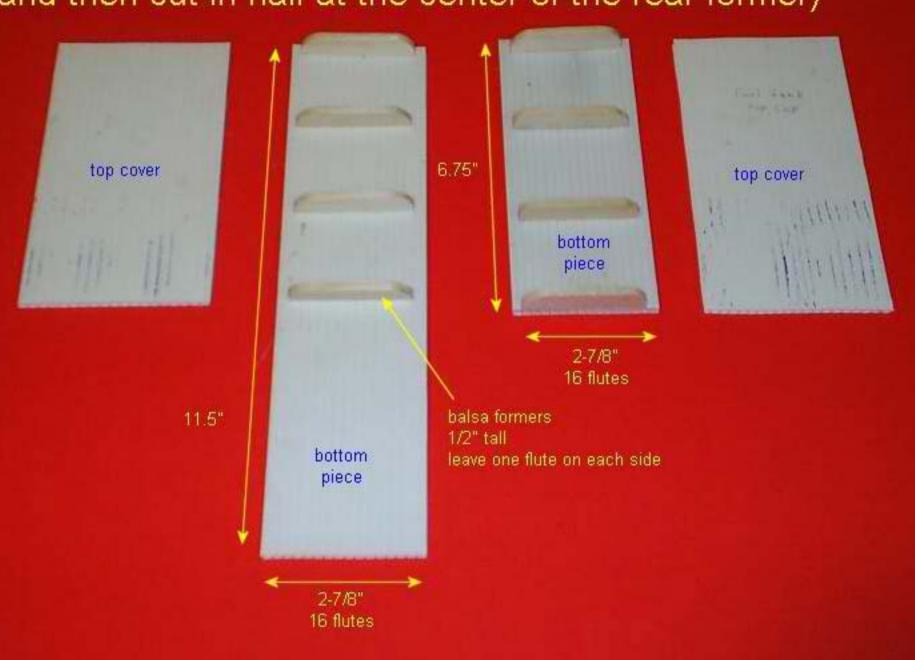


Fuselage Page 13

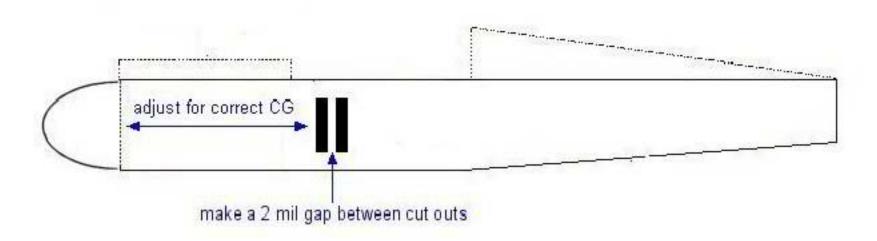


canopy is made from 2 litre soda bottle, cut to fit, it takes a little trial and error so be prepared to mess up a few times

top cap cutouts
(you can cut one long piece measuring from firewall to turtledeck and then cut in half at the center of the rear former)



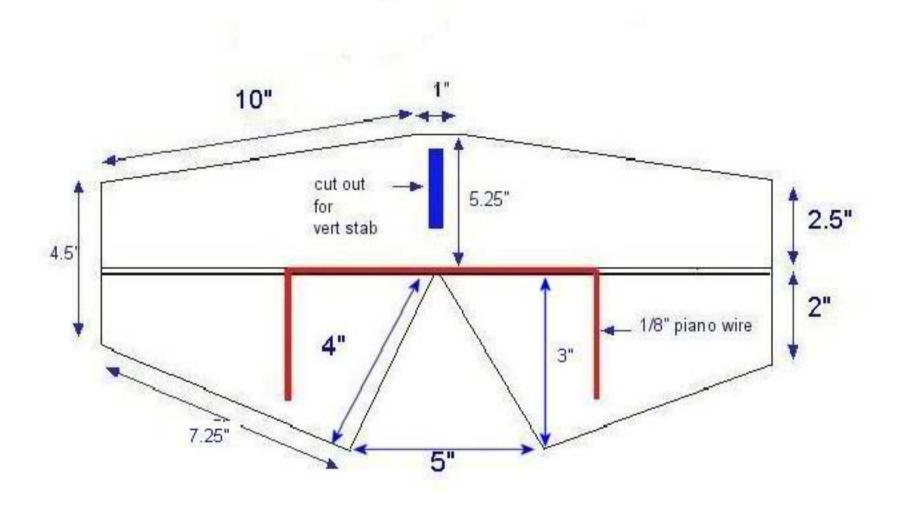
wing plug cut out

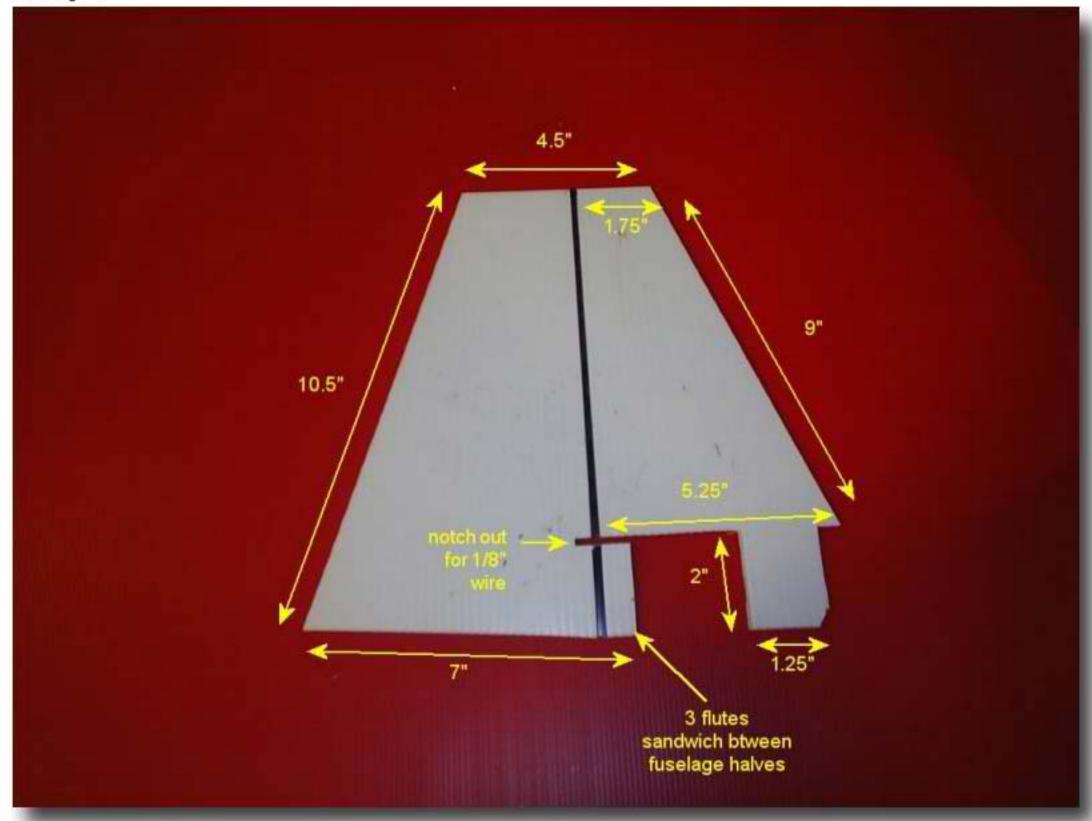


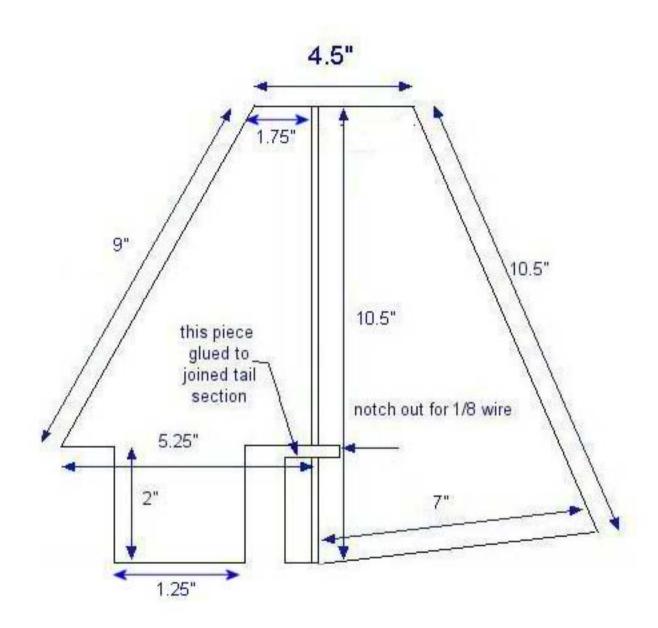
the cut outs should be a tight fit for the lattice

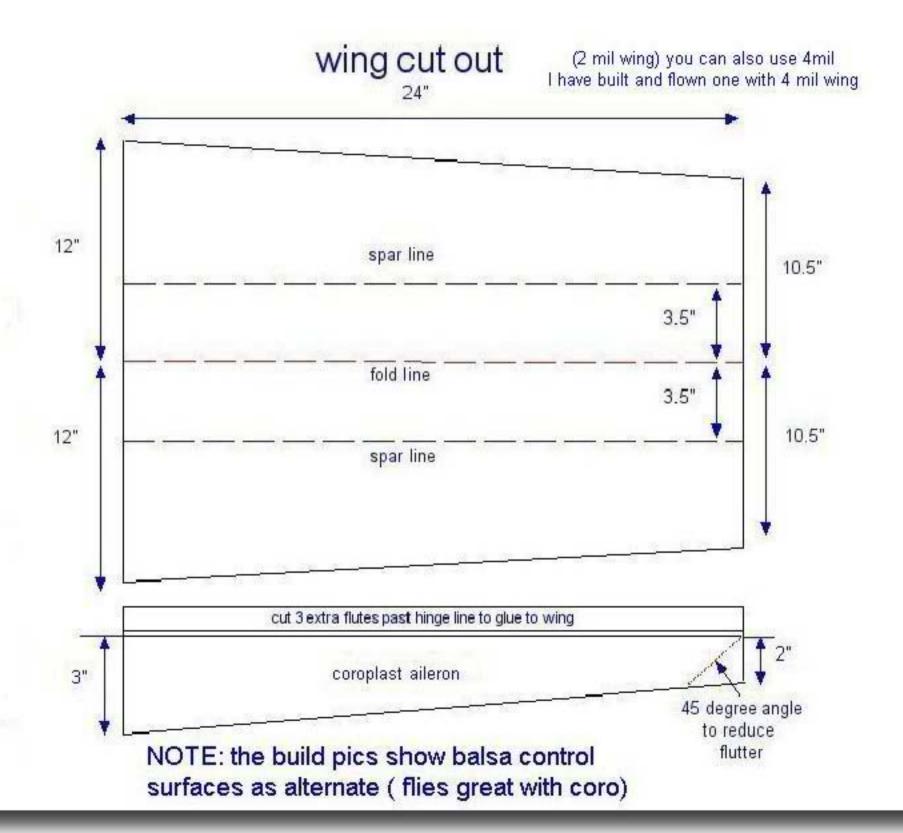
mark and drill the nylon bolt holes after the lattice spars are fit into the fuselage to ensure proper incidence which is O degrees

Balance Procedure: after engine and radio gear are installed join wing halves together and tape to bottom of fuse, then locate spot where cutouts need to be when plane balances on spar

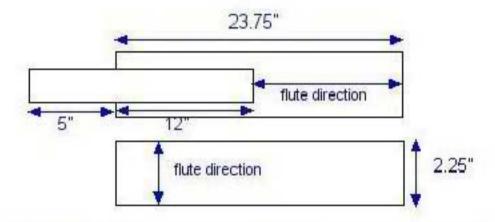




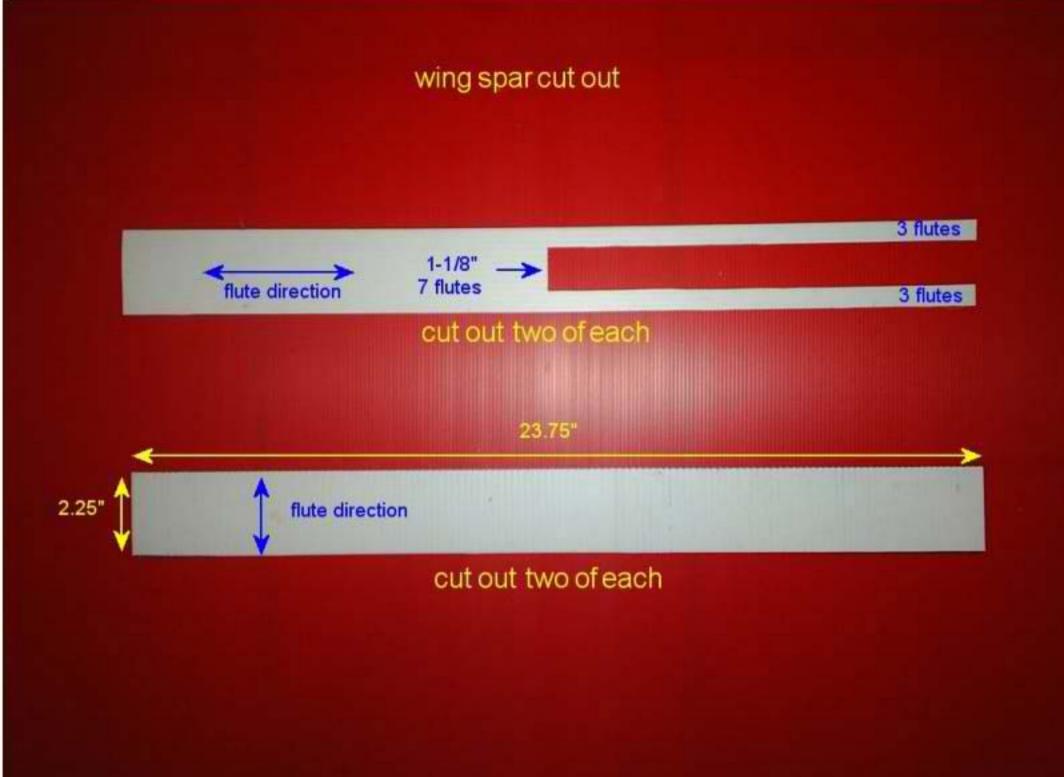




wing spar
4 mil coro, two pieces with flutes running opposite directions
1-1/4" lattice 17" long



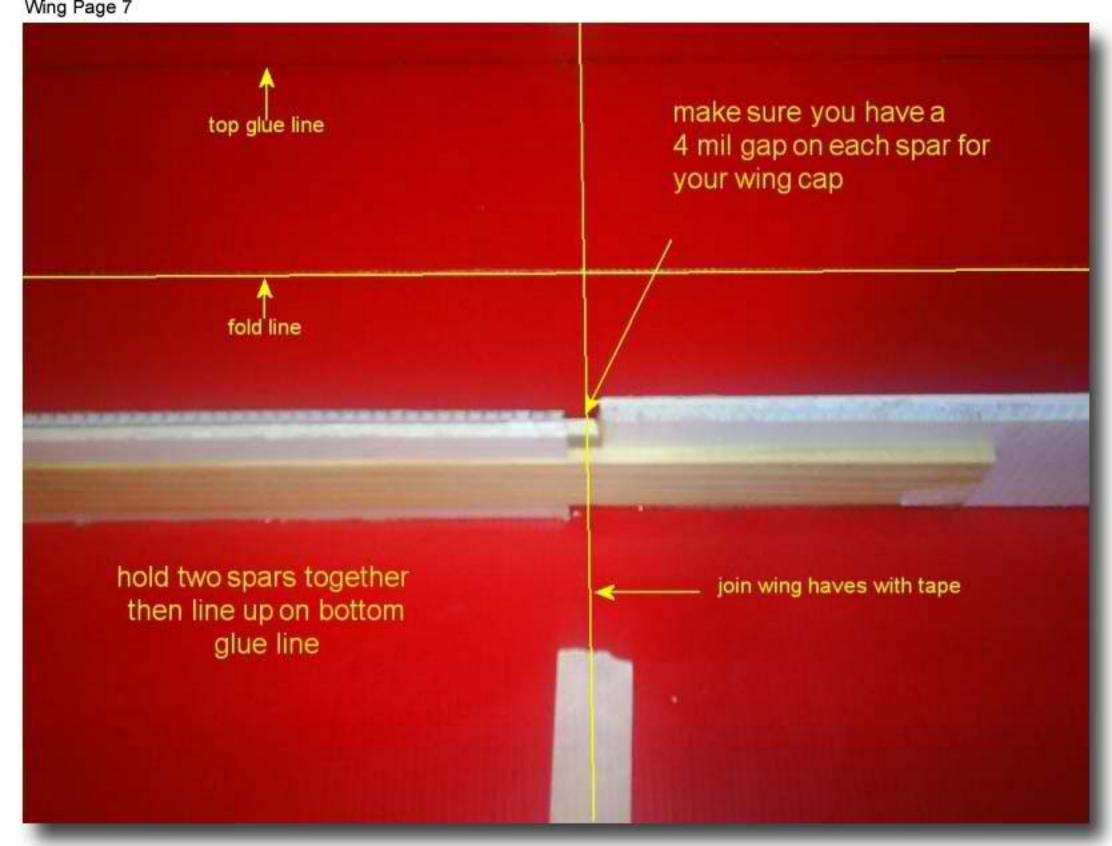
use 1-1/8 lattice for spar: yardsticks are too weak



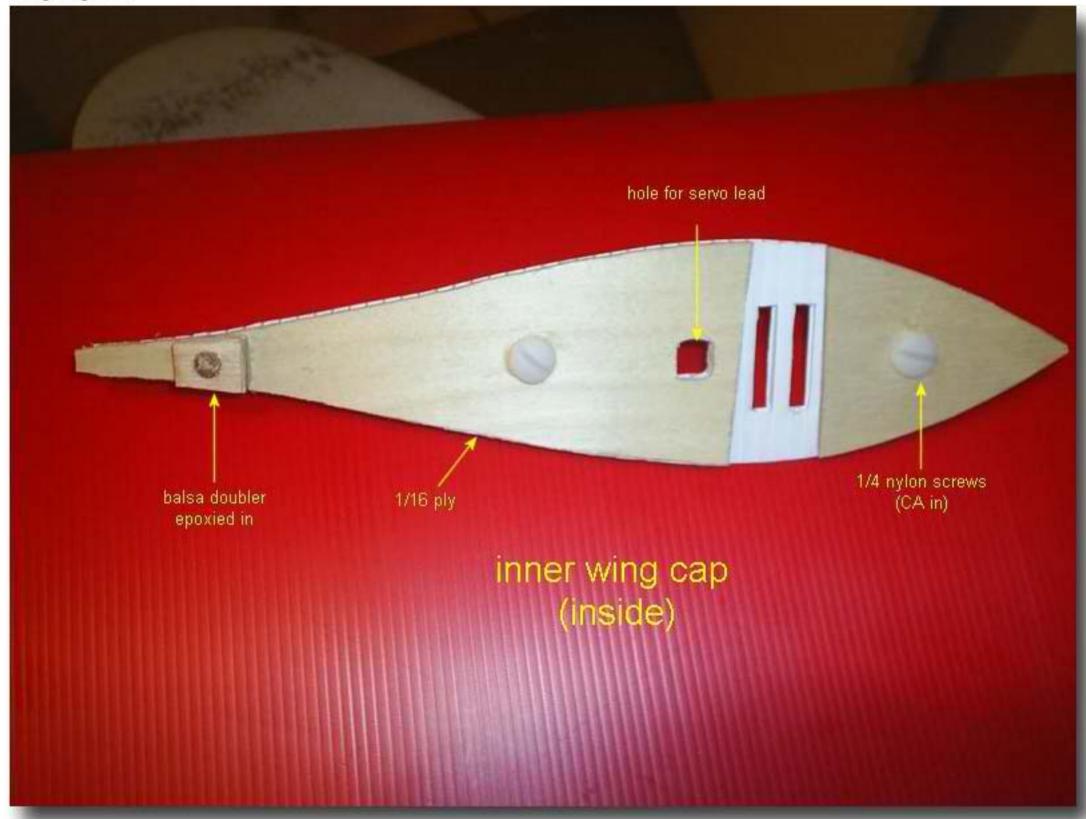














I had to move the wing back almost 1" to get the proper CG.

It was seriously tail heavy after I cut the original spar slots.

(Join the wing halves together and tape to the bottom of the plane to find the balance point. Make it slightly nose heavy because the balance point changes slightly when the wings are plugged into the fuselage. It is better to have it a little nose heavy and a lot easier to add weight to the tail to get it to balance)



Final Page 3 I used a piece of PVC to cover the front top cap







Final Page 7 bamboo skewers every other flute to keep gear from crushing coro mount landing gear all the way to the front of the servo





Final Page 10

