

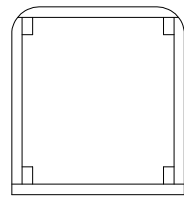
**NOTES:**

- \* All parts made from 6mm Depron or BlueCore foam unless otherwise indicated
- \* Sand all wing and empennage leading edges round and apply a piece of 3M Satin tape around the leading edge to add smoothness and durability
- \* Cut 45 deg bevels on the leading edge of all control surfaces and hinge with 3M Satin tape
- \* Strengthen the wing leading edges and the bottom of the fuselage with packing tape or light fiberglass to improve durability.
- \* Recommended control deflections (all dimensions measured at root trailing edge):  
 Elevator: +/- 1.0" (40% exponential)  
 Ailerons: +/- 0.75" (40% exponential)  
 Rudder: +/- 1.25" (25% exponential)

**RECOMMENDED POWER SETUPS:**

- 1) Grayson 2212-06 motor, 2100 mAh 11.1V lipo battery, APC 6x4E prop
- 2) Littlescreamers Super Park Jet motor, 1320 or 2100 mAh 11.1V lipo battery, APC 7x5E prop
- 3) Littlescreamers Park Jet motor, 1320 mAh 11.1V lipo battery, APC 6x4E prop

**Typical fuselage cross section**



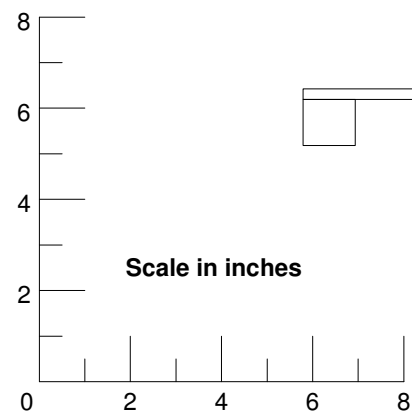
Cut hatch to fit battery, and attach with Scotch tape on all sides to make waterproof seal

0.22" dia x 28.0" carbon tube main spar

1/32" ply auxiliary spars

Thunder Power  
2100 mAh 11.1V

7.69"



For 6" diameter props, mount motor on bottom of firewall (shown here). For 7" diameter props, mount motor on top.

-2 degrees incidence for thrust line and horiz tail

Internal channel for running motor and elevator servo wires

**Polaris**

Span: 29.0"  
 Wing area: 343 sq in  
 Weight: 18 - 22 oz RTF  
 Wing loading: 8.4 oz/sq ft

Designed and drawn by Steve Shumate  
 Copyright © 2008 All Rights Reserved