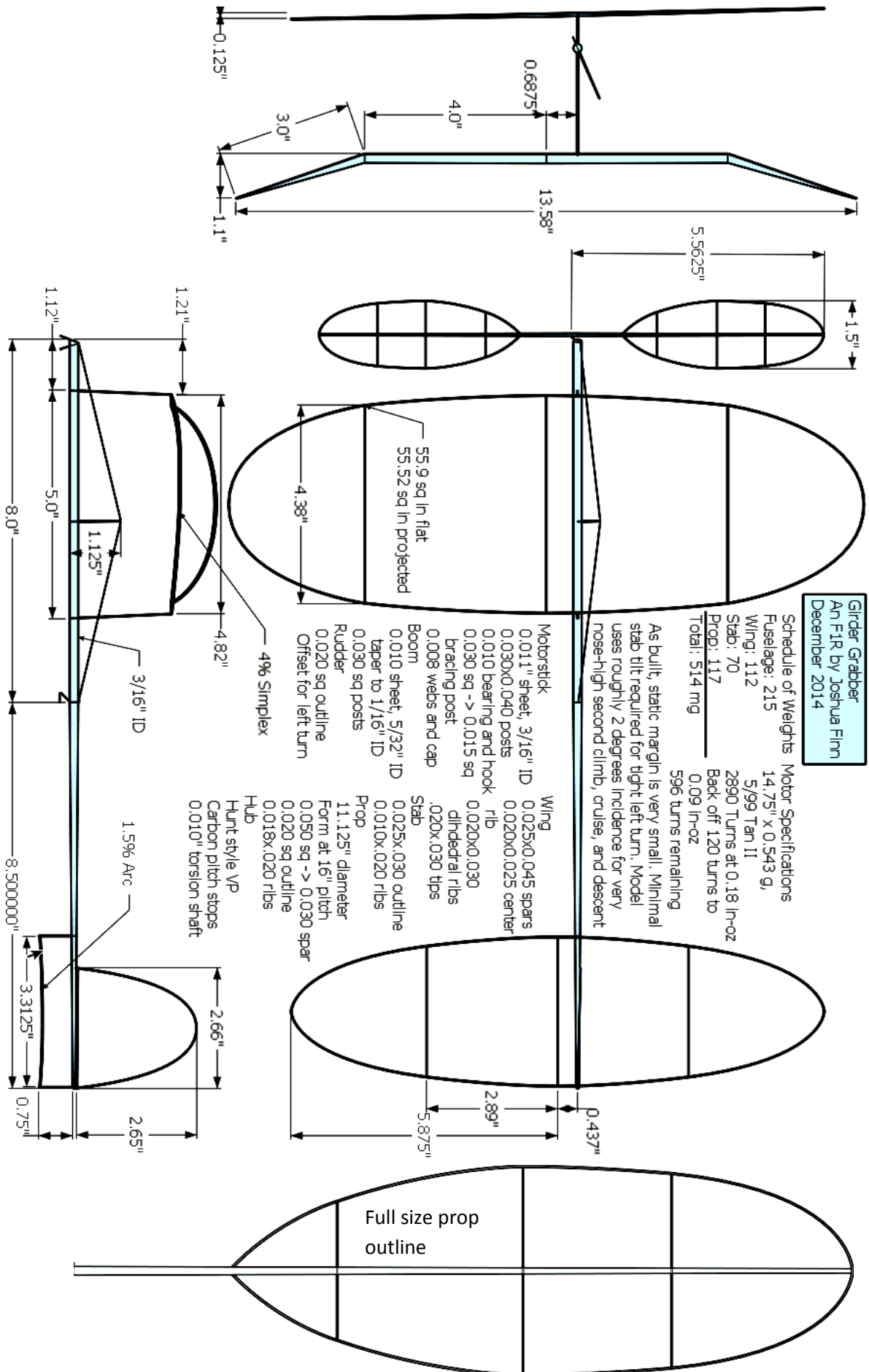


F1R (AMA event 224) record holding model by Joshua Finn



Glider Grabber
An F1R by Joshua Finn
December 2014

Schedule of Weights Motor Specifications
 Fuselage: 215 14.75" x 0.543 g.
 Wing: 112 5/99 Tan II
 Stab: 70 2890 Turns at 0.18 In-oz
 Prop: 117 Back off 120 turns to
 Total: 514 mg 0.09 In-oz
 596 turns remaining

As built, static margin is very small. Minimal stab tilt required for tight left turn. Model uses roughly 2 degrees incidence for very nose-high second climb, cruise, and descent

- Motorstick
 - 0.011" sheet, 3/16" ID
 - 0.030x0.040 posts
 - 0.010 bearing and hook rib
 - 0.030 sq -> 0.015 sq bracing post
 - 0.008 webs and cap
- Wing
 - 0.025x0.045 spars
 - 0.020x0.025 center rib
 - 0.020x0.030 dihedral ribs
 - .020x.030 tips
- Boom
 - 0.010 sheet, 5/32" ID taper to 1/16" ID
- Stab
 - 0.025x.030 outline
 - 0.010x.020 ribs
- Prop
 - 1.125" diameter
 - Form at 16" pitch
 - 0.050 sq -> 0.030 spar
 - 0.020 sq outline
 - 0.018x.020 ribs
- Rudder
 - 0.020 sq outline
 - Offset for left turn
- Hub
 - Hunt style VP
 - Carbon pitch stops
 - 0.010" torsion shaft

Full size prop outline