This model is a 33a version of a Comet model called the "Gut II". It was a great gas conversion with an .20S I used to build these in the 60's when I was a kid (I was a great flying model especially considering the fact I had no idea what I was doing. I store across an old set of plans and thought it would be neat to build a 40 size version. I reinforced the wing and tail surfaces a bit and I'm sure I've added a few pounds somewhere. I have not built this model yet and it the first time I've scaled up a model. I borrowed the nice drawing of the motor from a Dick Bradford drawing and also studied his drawings and designs for ideas. I've never flown a Dick Bradford design but I've heard that they are very good. If from his drawings. Hence this is why I haven't built this airplane yet.I welcome any and all comments and suggestions. There are alot of people out there with alot more knowledge about design than I have. Please let me know what you think and if I've screwed up. Find wrong with this plan. Good luck and I hope the 40 size fly's as good as my 33'SA did.

Chuck G.

1/8" LE

1/8" Balsa W1A

1/8" Balsa W1

1/8" Balsa W2

1/8" Balsa W3

1/16" balsa shear web.

Leading edge 3/4" square or L.E. stock. (hard balsa)

W1B W1B W1B W1A W1 W1 W1 W1 W1 W1 W1 W1 W1 W2 W3

1/4" balsa block shear webs.

See const. note #1

1/16" balsa shear webs.

Spruce spars and balsa shear webs end here.

1/8" lt ply. gussets.

1/4"x1/4" hard balsa spar. (hard)

1/4"x1/4" spruce spars.

1/4"x3/8" hard balsa spar. (bottom only)

1/4 " x 3/8" balsa

1/4" balsa sheet

1/4 " x 1 " T.E. balsa stock

Wing tip balsa all 1/4" sheet.

Leading edge.

5/16"

Use 1/2" sq. or L.E. stock. Sand to this shape.

1/4" balsa

3/16" sq balsa

Use 1/2" balsa sheet. Round front to L.E. shape. Taper rear down to match TS1 spar.

T1 T2 T3 T4 T5 TS1

T1A T2A T3A T4A TS2 T4B TS5A TS5A TS2A

1/2" hard balsa for contorl horn and wire stablizer joiner. Note: notch ribs T5A for wire stablizer joiner.

Use 1/4"x3/4" hard balsa spar stock.

TS1

TS2

TS2A

T1 T1A T2 T2A T3 T3A T4 T4A T4B T5 T5A

4"

D1

1/8" lt. ply

D1

W1B W1B W1B

D2

D1

1/8" lt. ply dihedral brace Make 2

D2

1/8" lt. ply dihedral brace Make 1

Typical spacing between const. note #1 between upper and lower fuselage sides and dihedral brace. Also between W1A and W1B and W1B ribs

W1 W1A D1 D1 D1 D2

Balsa shear web

triangle stock

Note: Lower spar section shown turned around for clarity.

Burch landing gear block

Notch here for landing-gear sides. See top view.

Main gear

Bend both to angles shown on fuse side view and sodder together.

1/8" dia. music wire.

Main gear support

Formers F1-F4 are cut so that the sheeting will fit flush with the fuse. sides. The sheeting template is cut a little long on the sides so it will have to be trimmed so it will fit flush. The sheeting is 1/16" balsa.

This template is for formers F2-F4. If you intend to use former F1 you'll have to make this longer. See note below formers F1-F4.

1/2" triangle stock firewall gussets. Run full length top to bottom.

3/8" sq. hard balsa.

F7A F7

All crossmembers 3/8" sq. balsa except where indicated.

F1 F2 F3 F4

1/8" thick landinggear mount.

3/8" ply. dowel.

1/8" balsa formers

F1 F2 F3 F4

1/8" balsa cabin top.

F5 1/8" lt. ply.

F6 1/8" lt. ply.

1/4" ply. motor mount (Firewall)

Note: Only use former F1 if you intend to mount the motor upside-down or convert this model to electric. Otherwise leave out F1 as well as the cross member balsa it's mounted to. I used F1 for the first time I flew it to leave the motor exposed. I did this to the rubber powered version when I converted it to a 1/2A freeflight.

1/8" lt. ply former F6

1/8" lt. ply former F5

3/8"x3/4" burch landing gear block notched for 1/8" wire. Standard item available at Balsa USA

1/4" balsa sheet

Sand to this shape.

1/4"x1/2" balsa. Taper and sand to this shape.

All 1/4" sq. balsa except where noted.

1/4" balsa sheet

C.G.

F5

F6

Sheet formers with 1/16 balsa.

1/8"x1/4" hard balsa

3/8" sq. hard balsa

Cabin covering 1/16" sheet balsa.

F7A F7

1/8"x1/4" hard balsa stringer.

F8

1/8" sq. balsa stringer.

F9

F10

1/4" balsa gussets

F1 F2 F3 F4

Note: Fuel tank placement to be determined by engine type and CG

1/4"x3/8" balsa

1/4" ply. firewall

1/8" lt. ply. landing gear mount.

3/8" sq. balsa

Block dots indicate location of 3/8" sq. balsa crossmembers.

3/8"X3/4" balsa stock cut to shape.

1/8" balsa formers

F7A F7 F8 F9 F10