This model is a 2.5x version of a Comet model called the "Gull II". It was a great gas conversion with an .020. I used to build these in the 50's when I was a kid. It was a great flying model especially considering the fact I had no idea what I was doing. I came across an old Comet Gull II kit in the basement of my folks house. I built it as a conversion of the model and redesigned it to hopefully handle a 40. I can't guarantee anything because I have not build this model yet and it the first time I've scaled up a model. I borrowed the nice looking fuse from the Comet Gull II and the wing from the Comet Clipper. I did redesign the wing(carefully while doing this project. This man does nice work and I'm currently building a Rambler II from his drawings. Hence this is why I haven't build this airplane yet. I welcome any and all comments, suggestions, criticisms, etc. I'm always looking for ways to improve my designs about design than I and it would be happy to hear about anything you find wrong with this plan.

Good luck and I hope the 40 size fly's as good as my 1/2A did.

Chuck G.

1/8" LI ply. W1B
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 W1 W2 W3

1/4" balsa block shear webs.

See const. note #1

1/16" balsa shear webs.

1/8" lt. ply gussets.

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

1/4"x1/4" spruce spars.

Spruce spars and balsa shear webs end here.

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

1/4 " x 3/8" balsa

1/4" balsa sheet

Wing tip balsa all 1/4" sheet.

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

Leading edge.

5/16"

4"

D1

1/8" lt. ply

D1

W1B W1B W1B

D2

1/8" lt. ply dihedral brace Make 2

D2

1/8" lt. ply dihedral brace Make 1

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 T5A T5A TS2A T4B

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

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

TS1

TS2 TS2A

T1 T1A
T2 T2A
T3 T3A
T4 T4A T4B
T5 T5A

Typical bracing using 1/8" lt. ply gusset. Note: Gusset is used on both sides of W1B and W1A and ribs at W1A and W1B.

W1 W1A W1B 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 long-er. 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" lt.ply landinggear mount

3/8" ply. dowel.

1/8" balsa formers

F1 F2 F3 F4

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 below it. Because I wanted to be able to run the .020 R/C with the motor exposed, I did this to the rudder powered version when I converted it to a 1/2A freeflight.

1/8" balsa cabin top.

F5 1/8" lt. ply.

F6 1/8" lt. ply.

1/4" ply. motor mount (Firewall)

1/8" lt. ply. former F6

1/8" lt. ply. former F5

3/8"x1/4" 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.

Sheet formers with 1/16 balsa.

1/8"x1/4" hard balsa

3/8" sq. hard balsa

1/4" balsa gussets

Cabin cowling 1/16" sheet balsa.

F5 F6 F1 F2 F3 F4 F7A F7 F8 F9 F10

Note: Fuse tank placement to be determined by engine type and C.G.

1/4" ply. firewall

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

Cabin cowling 1/16" sheet balsa.

1/8" balsa formers

F7A F7 F8 F9 F10

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

1/8" sq. balsa stringer.

1/4"x3/8" balsa

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

3/8" sq. balsa

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