Suggest starting with 2 Deg. right & 3 Deg. down thrust.

Locate and size blind nuts & mounting screws to suit motor

F1 Installed with 1 Deg. down thrust

Use 1/16" & 1/32" thick Nylon washers to space motor from F1 and adjust side and down thrust

F1 installed with 1/16" Plywood

1/8" Plywood

1/16" Balsa hollow as required to accommodate tank

Drill F1 as required for motor and wiring

1/16" Balsa bottom between fuselage sides

1/16" Balsa tray

Clear plastic windshield

Windshield base frame

Li-Poly Battery 3S 11.1V
450mah 35 C 42 g w/con.

4-40 x 1/4" Nylon Screw (Typ. 4 Places)

40 x 1/4" Nylon Screw (Typ. 4 Places)

Left 1/16" fuselage side sheeting

E-flite 10 Amp Pro Brushless

E-flite Park 300 1380Kv or similar 50W -100 W motor suggested propeller 7x4E

1/16" Balsa

1 1/2" Dia. Light Weight Wheels

After installing LG1, 2, & 2 & shaping fuselage reinf. with 0.5 oz. fiberglass clt and epoxy 3/8" all around and re-tap holes afterwar

Carve to this outline after assembly

1/16" Balsa double Nose Blocks
F 5

F 6

0 1 2 3 4

1/8"x1/16" Balsa

1/32" Plywood

F 2A

Carve pilot from soft balsa.

Head Rest and cockpit carved from soft balsa

W1

Suggested starting C.G. move aft as needed to increase control response

side sheeting omitted for clarity

16" Balsa Doubler

1/4" Balsa

F D6-1/16" Balsa Wing Saddle Doubler

6-32 x 3/4" Nylon Screws

TD1 1/4" Balsa

FD4-1/16" Balsa doubler

1/4" Triangle balsa

TD2

1/16" Balsa receiver mounting shelf

Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3

1/32" Plywood

Suggested starting C.G. move aft as needed to increase control response

1/16" Balsa Doubler

1/16" Balsa

F D6-1/16" Balsa Wing Saddle Doubler

6-32 x 3/4" Nylon Screws

TD1 1/4" Balsa

FD4-1/16" Balsa doubler

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F 3

1/32" Plywood

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F 3

F 3

1/32" Plywood

Suggested starting C.G. move aft as needed to increase control response

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Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3

1/32" Plywood

Suggested starting C.G. move aft as needed to increase control response

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6-32 x 3/4" Nylon Screws

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FD4-1/16" Balsa doubler

1/4" Triangle balsa

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Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3

1/32" Plywood

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6-32 x 3/4" Nylon Screws

TD1 1/4" Balsa

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1/4" Triangle balsa

TD2

1/16" Balsa receiver mounting shelf

Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3

1/32" Plywood

Suggested starting C.G. move aft as needed to increase control response

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6-32 x 3/4" Nylon Screws

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1/4" Triangle balsa

TD2

1/16" Balsa receiver mounting shelf

Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3

1/32" Plywood

Suggested starting C.G. move aft as needed to increase control response

1/16" Balsa Doubler

1/16" Balsa

F D6-1/16" Balsa Wing Saddle Doubler

6-32 x 3/4" Nylon Screws

TD1 1/4" Balsa

FD4-1/16" Balsa doubler

1/4" Triangle balsa

TD2

1/16" Balsa receiver mounting shelf

Servo tray make from 1/32 ply with 1/8" sq. and 1/8"x3/16" basswood or hard balsa

1/16" Balsa

F 3

F 3
Bend L.G. from 1/16" Dia. music wire

1/16" Medium hard balsa vertical stab. & rudder

1/16" Plywood
to suit push rods

0.032" Dia music wire attached with strong thread and epoxy

1/16" Balsa doubler

1/16" Balsa cross grain bottom sheeting (Do not install portion between F3 & F5 until pushrods are installed.)

1/8" Sq. Balsa each side of vertical stab.

0.12" Sq. Balsa

"THE SEPTAL"
1/16" Plywood

Soft balsa install after H.stab.

1/2A Nylon Control Horn
Tap 4-40 NC & Nylon Screws

Trimmed 1/2A control horn

F 6
Fill with scrap balsa after H. stab installation.

1/16" Plywood
Drill and sew on skid before attaching to fuselage

W1
Medium balsa

Drill and Tap 4-40 NC after assembly of LG 1, 2, & 2A's (Typ. 4 places)

1/4A R/C Class I
Designed 1961
By Stan John
Redrawn for Class II Electric
by Carl Hock 2012
Section "A-A"

Tip Grain Top & Bottom

1/8" Sheet balsa tip gussets
Bevel W1 & Tip Bottom
1/16" Balsa sheet wing tips
1/8" Sheet balsa tip gussets

1/16" Washers & JB Weld epoxy

Wrap w/ copper wire and solder

1/16" Ply windshield base frame

FD1-1/16" Balsa sheet vertical grain doublers between F1 and F2

Soft Balsa Nose Blocks

Carve to this outline after assembly

E-flite 10 Amp
3/8" x 1/4" Balsa L.E.

Top spar 1/8" x 1/8" hard balsa
Bottom spar 3/16" x 1/8" hard balsa

All Ribs 1/16" Balsa

W2  16 Required
W1  3 Required
W3  2 Required

1/16" Balsa Fuselage Sides

1/8" Ply drill and tap 6-32 NC

Suggested routing of 0.032" Dia. M.W. push rods with plastic housing
1/16" Medium hard balsa
horizontal stab. & elevator

Wing Tip Bottom 1/16" Balsa

3/4" x 1/4" x 1/16" Balsa T.E.

1/8" Sq. Balsa each side of vertical stab.

1/2A Nylon clevis & shortened 2-56 thru hole brass coupler

3/16" Dia. in L.E. Joiner Only

1/32" Ply. L.E. Wing Joiner

1/16" Ply. Lower Spar Wing Joiner

1/16" Ply. Top Spar Wing Joiner

8" hard balsa x 1/8" hard balsa
1/16" Balsa wing center section sheeting top & bottom.

Section "B-B"

1/16" Dia. carbon fiber or wire elevator joiner

1/16" Dia. carbon fiber or wire elevator joiner install after

1/16" Balsa gussets top & bottom

1/16" Balsa gussets top & bottom

1" Dihedral under each wing tip.