BUTT GLUE FINISH TOGETHER WITH EACH WINGTIP. JOINT WITH 3" FIBERGLASS TAPE.

CUT OUT TO W1 RIBS TO INSTALL TWO SPRUCE FOR FRONT SPRUCE TO UPPER S.
UNSIGNED WING PANELS
TH 1\" DIHEDRAL UNDER
. WRAP CENTER
\" WIDE 2 OZ/SQ YD
APE & EPOXY.

TOP SHEETING AND
TO CLEAR SERVO &
TWO PIECES OF 1/4 SQ.
OR SERVO MOUNTS.
RUCE PIECE IS GLUED
SPAR CAPS.
TERRIER ES

CONTROL THROWS:
CWER +/- 1.125”
TATOR +/- 3/4”
NONS + 1/2”
- 13/32”

NENTIAL:
TATOR +20%
NONS +15%

SPAN - 58 IN
AREA - 550 SQ IN
WEIGHT - 68 OZS
WING LOADING - 17.8 OZ/SQ FT
WING CUBE LOADING - 9.1 OZ/CU FT

DESIGNED & DRAWN BY AL CLARK
JANUARY 2017
W1 & W2 1/8 BALSA - 2 EA. REQ'D

W3 & W4 1/16 BALSA - 2 EA. REQ'D

W5 - W11 1/16 BALSA - 14 REQ'D
1/16 PLYWOOD LG
DOUBLERS - 4 REQ'D

LG BLOCKS - 2 EACH REQ'D
MAKE FROM 1/8 PLYWOOD

FORWARD

LEFT LANDING GEAR
MAKE FROM 1/8 DIA.
MUSIC WIRE.
RIGHT LANDING GEAR IS MIRROR IMAGE.

WING ROOT

DU-BRO LG STRAP

SECTION B-B

REAR VIEW OF SHEETED HATCH
020 WINDSHIELD

BEVEL INSIDE EDGE
Dowel

Section at W1

W1 Rib Angle Gauge

Du-Bro #103 Strip Aileron Horn
Du-Bro #112 Solder Link and
#111 Threaded Coupler Soldered to
1/16 Dia. Music Wire.
Du-Bro #109 Kwik Link
Note: Same hardware is used on
Rudder and Elevator Pushrod ends.
ADD 1/16 X 1/4 BALSA STRIP TO 1/2 BALSA, THEN SHAPE TO DOTTED LINES TO GET TE STOCK

0.56
1.50

0.09
0.12
0.32

BEVEL TE STOCK TO DOTTED LINES FOR AILERONS

SIG EZ HINGE (TYP)

3/16 SHEET BALSA FIN & RUDDER

BALSA FAIRING BLOCK LEFT & RIGHT SIDE
T6 and T7 are 1/8 vertical grain balsa.

3/16 vertical grain balsa.

F5 made from 1/8 cross-grain balsa laminated to 1/16 vertical grain balsa.

T5 made from 1/8 vertical grain balsa laminated to 1/16 cross-grain balsa.
1/8 BRAZEH
VERTICAL
GRAIN WEB
W1 - W5

1/16 BALSA
SHEETING
W1-W4 TOP &
BOTTOM

1/8 O.D.
BRASS
TUBE

#9 HOLE

MAKE AILERON TORQUE ROD
FROM 3/32 MUSIC WIRE AND
1/8 O.D. BRASS TUBE BEARING

3/32 X 3/16 STRINGERS
(7 PLCS)

ON LEFT WING PANEL.
1/8 BALSA STABILIZER DOUBLE 

1/8 BALSA FUSELAGE SIDES

1/4 TRIANGULAR BALSA

3/32 BALSA BOTTOM SHEETING (CROSS-GRAIN)

1/4 SQ. SPRUCE PUSHRODS ENDS ARE 1/6 MUSIC WIRE WITH L BEND INSERTED INTO HOLE IN SPRUCE AND ATTACHED WITH FISHING LINE & GLUE

SODA STRAW ANTENNA TUBE

Ø0.15 (#25)

F2 1/8 PLYWOOD

F2A
1" DIA. COOLING AIR EXITS IN FUSELAGE BOTTOM

DRILL/TAP 10-32

1/4 SQ. BALSAC (TYP)

NECK NOT SHOWN IN TOP VIEW.

1/16 PLYWOOD SERV.

3/16 PLYWOOD

F1

F2A 1/8 PLYWOOD

F3 3/16 PLYWOOD
1/16 PLYWOOD SERVO
RAIL LOCKS - 2 EA. REQ'D

NOSE COOLING AIR HOLE

MOTOR ACCESS HOLE

FRONT VIEW OF FUSELAGE BACK TO T4

FUSELAGE SECTION AT FRONT OF F1

FUSELAGE SECTION
1/4 SQUARE BALSA LE (SAND FLUSH WITH RIBS BEFORE SHEETING)

1/16 BALSA D-TUBE SHEETING TOP & BOTTOM TO CENTER OF SPAR CAPS

NOTE: USE 3/16 SHIMS UNDER 3/32 BALSA VERTICAL
ALL CAP STRIPS 1/6 X 1/4 TOP & BOTTOM

3/16 SHEET BALSA TE

NOTE: USE 3/16 SHIMS UNDER BOTTOM SPAR CAP DURING INITIAL CONSTRUCTION.

1/16 X 3/4 BALSA TE SHEETING

SIG EZ HINGE (CA HINGE) LOCATIONS

W5 - W8

SHEETING, CENTER SECTION SHEETING, AND CAP STRIPS NOT SHOWN ON

.030 WINDSHIELD

ATTACH ENDS OF WINDSHIELD WITH CUT OFF DRESSMAKERS PINS
1/4 SQ. SPRUCE LONGERONS

1/8 LITE PLY BATTERY SHELF

1/4 TRIANGULAR BALSA

1/16 VERTICAL GRAIN BALSA DOUBLERS FROM NOSE TO FRONT FRONT OF F5, LEAVE GAP FOR F1.

WINGNUTTED WITH 4-40 DRESSMAKERS PINS

F4 - 1/8 LITE PLY FITS BETWEEN SIDES

10-32 NYLON BOLTS

BALANCE POINT

T4 ANGLE GAUGE

T2 1/8 LITE PLY
B LITE PLY MAGNET MOUNT

1/4 SQ. BALSA

1/4 SQ. SPRUCE

K&J MAGNETICS D31 MAGNET (4 PLCS)

1/4 X 3/8 SPRUCE SERVO RAILS

NOTE: BATTERY FLOOR, F4, AND FUSELAGE TOP DEC
1/2 SHEET BALSA WINGTIPS

EDGE OF TOP TE SHEETING

SHAPE AILERONS PIECES FROM 1/2 SHEET
(SEE DETAIL AT)

DIHEDRAL 1 INCH UNDER EACH WINGTIP

3/8 TRIANGULAR BALSA - NOTE CURVED SHAPE IN T2 (SEE DETAIL AT)

APC 11X5.5E PROP

NOTE: TOP D-TUBE SHOWN GLUED INTO T2
CURVED SHAPE IN FRONT VIEW BELOW

E-FLITE POWER 25 870 KV

3/4 TRIANGULAR BALSA

4-40 SCREWS & BLIND NUTS 3/8 LONG STANDOFFS

4S 4500 MAH LiPo

#2 S.H. SHEET METAL SCREW (4 PLCS)

ESC

1/4 BAILS

CASTLE T-BIRD

3/16 CROWN BALSA
FRONT VIEW OF FUSELAGE
BEFORE 1/8 BALSA FRONT
PIECE HAS BEEN INSTALLED
AND BEFORE ROUNDING OFF
ALL FOUR CORNERS

3/8 TRIANGULAR BALSA (2 PLCS)  1/8

1/8 HARD BALSA

COOLING AIR EXIT & MOTOR AIR
HOLE IN FUSELAGE BOTTOM
3/16 SHEET BALSA
STABILIZER & ELEVATOR

SIG EZ HINGE (TYP)