# DOUGLAS DC-3

## TOP FLITE MODELS

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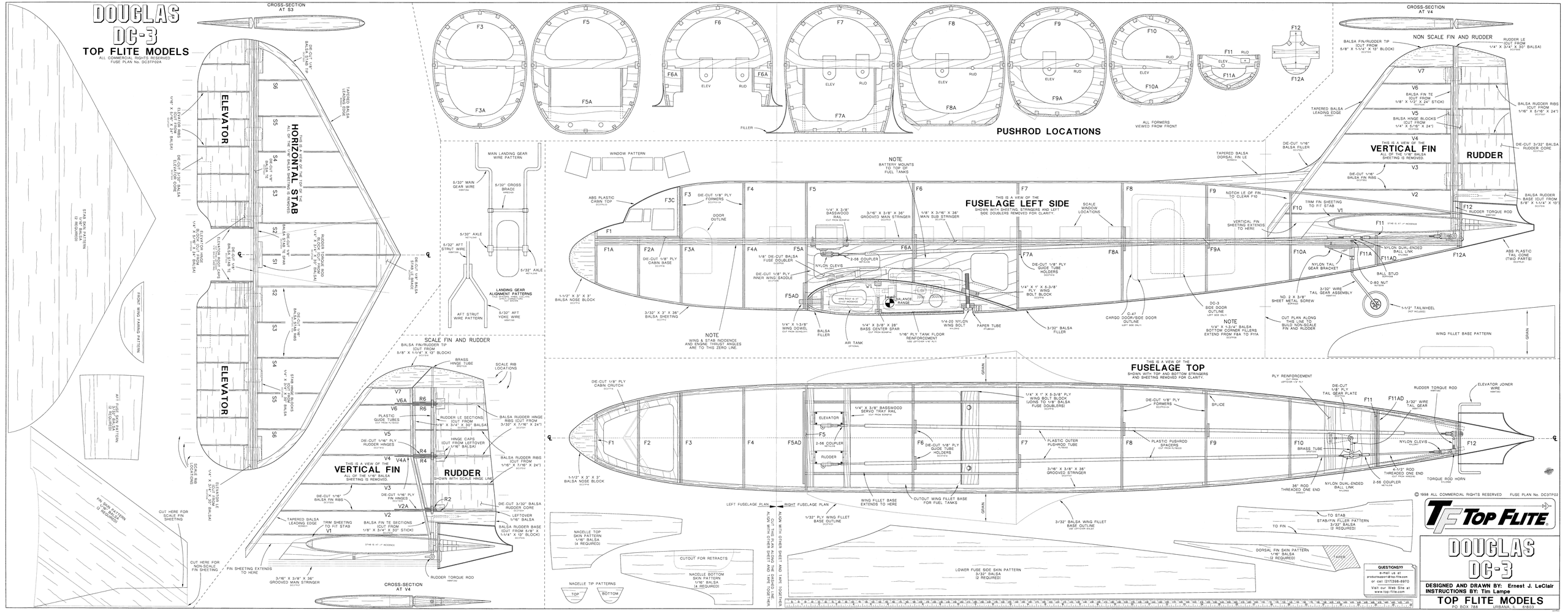
FUSE PLAN No. DC3TP02A

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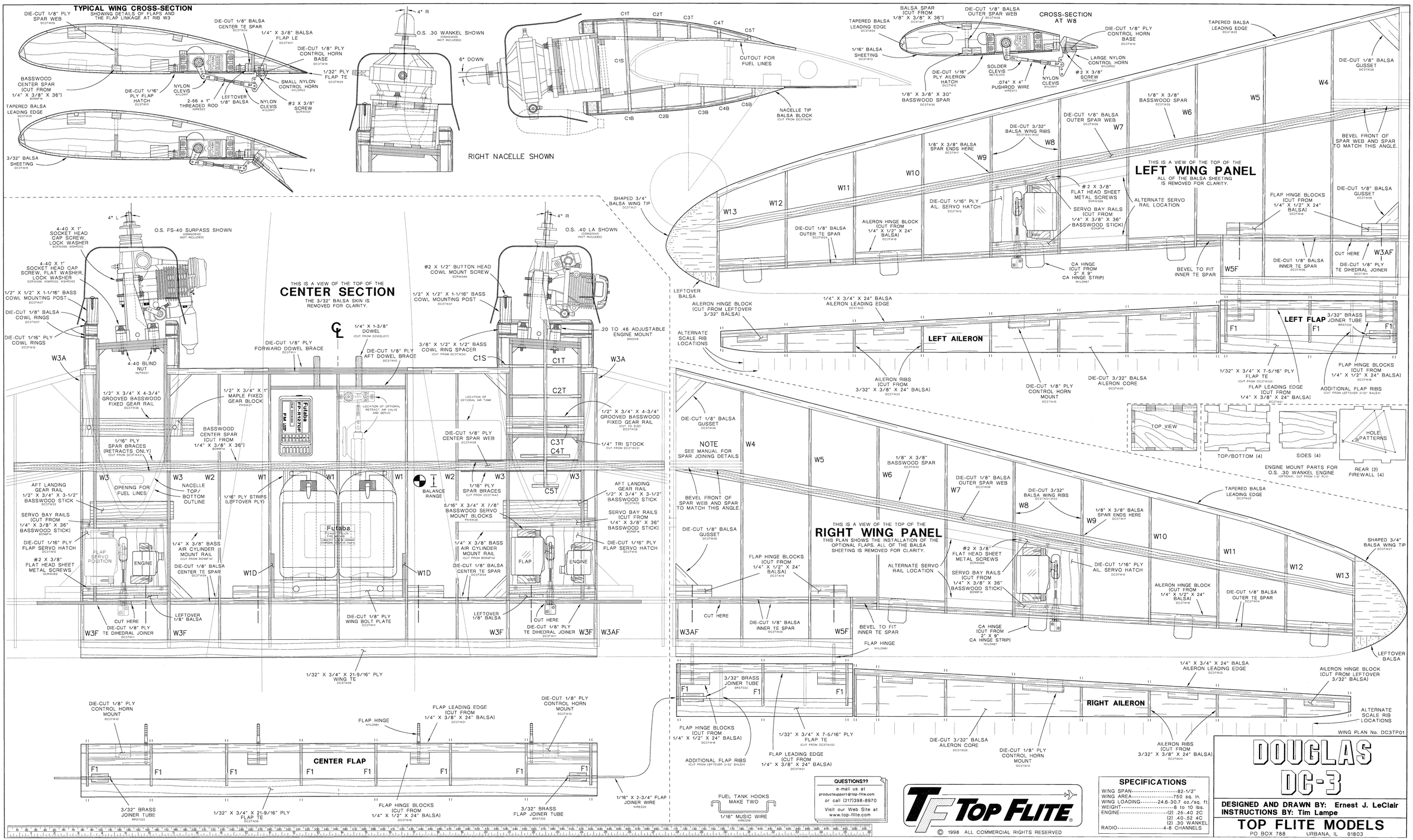
TYPICAL WING CROSS-SECTION
SHOWING DETAILS OF FLAPS AND THE FLAP LINKAGE AT RIB W3
DIE-CUT 1/8" PLY SPAR WEB DC3TW09
DIE-CUT 1/8" BALSA CENTER TE SPAR DC3TW04
1/4" X 3/8" BALSA FLAP LE DC3TW21
DIE-CUT 1/8" PLY CONTROL HORN BASE DC3TW10
1/32" PLY FLAP TE DC3TW29
BASSWOOD CENTER SPAR (CUT FROM 1/4" X 3/8" X 36") BDM9F14
DIE-CUT 1/16" PLY FLAP HATCH DC3TW12
NYLON CLEVIS NYLON07
2-56 x 1" THREADED ROD WIRE023
LEFTOVER 1/8" BALSA
NYLON CLEVIS NYLON07
SMALL NYLON CONTROL HORN NYLON03
#2 X 3/8" SCREW SCRW024
TAPERED BALSA LEADING EDGE DC3TW28
3/32" BALSA SHEETING DC3TW16
F1
4" R
O.S. .30 WANKEL SHOWN (COMMOD002) (NOT INCLUDED)
6" DOWN
C1T C2T C3T C4T C5T
C1S
C1B C2B C3B C4B C5B
CUTOUT FOR FUEL LINES
NACELLE TIP BALSA BLOCK (CUT FROM DC3TW28)
RIGHT NACELLE SHOWN
CROSS-SECTION AT W8
BALSA SPAR (CUT FROM 1/8" X 3/8" X 36") DC3TW07
DIE-CUT 1/8" BALSA OUTER SPAR WEB DC3TW06
TAPERED BALSA LEADING EDGE DC3TW28
1/16" BALSA SHEETING DC3TW13
DIE-CUT 1/16" PLY AILERON HATCH DC3TW02
1/8" X 3/8" X 30" BASSWOOD SPAR DC3TW35
SOLDER CLEVIS METAL030
.074" X 4" PUSHROD WIRE WIRE012
NYLON CLEVIS NYLON07
LARGE NYLON CONTROL HORN NYLON02
#2 X 3/8" SCREW SCRW024
DIE-CUT 1/8" PLY CONTROL HORN BASE DC3TW10
TAPERED BALSA LEADING EDGE DC3TW28
DIE-CUT 1/8" BALSA GUSSET DC3TW06
W4
W5
W6
W7
W8
W9
W10
W11
W12
W13
1/8" X 3/8" BASSWOOD SPAR DC3TW35
DIE-CUT 1/8" BALSA OUTER SPAR WEB DC3TW06
DIE-CUT 3/32" BALSA WING RIBS DC3TW01-W03
1/8" X 3/8" BALSA SPAR ENDS HERE DC3TW17
BEVEL FRONT OF SPAR WEB AND SPAR TO MATCH THIS ANGLE.
THIS IS A VIEW OF THE TOP OF THE
LEFT WING PANEL
ALL OF THE BALSA SHEETING IS REMOVED FOR CLARITY.
# 2 X 3/8" FLAT HEAD SHEET METAL SCREWS SCRW069
SERVO BAY RAILS (CUT FROM 1/4" X 3/8" X 36" BASSWOOD STICK) BDM9F14
ALTERNATE SERVO RAIL LOCATION
DIE-CUT 1/16" PLY AIL. SERVO HATCH DC3TW12
DIE-CUT 1/8" BALSA OUTER TE SPAR DC3TW04
AILERON HINGE BLOCK (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
CA HINGE (CUT FROM 2" X 9" CA HINGE STRIP) NYLON07
BEVEL TO FIT INNER TE SPAR
W5F
FLAP HINGE BLOCKS (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
DIE-CUT 1/8" BALSA GUSSET DC3TW06
DIE-CUT 1/8" BALSA INNER TE SPAR DC3TW06
CUT HERE
W3AF
DIE-CUT 1/8" PLY TE DIHEDRAL JOINER DC3TW11
SHAPED 3/4" BALSA WING TIP DC3TW27
LEFTOVER BALSA
1/4" X 3/4" X 24" BALSA AILERON LEADING EDGE DC3TW22
AILERON HINGE BLOCK (CUT FROM LEFTOVER 3/32" BALSA)
ALTERNATE SCALE RIB LOCATIONS
LEFT AILERON
AILERON RIBS (CUT FROM 3/32" X 3/8" X 24" BALSA) DC3TW20
DIE-CUT 1/8" PLY CONTROL HORN MOUNT DC3TW10
DIE-CUT 3/32" BALSA AILERON CORE DC3TW05
LEFT FLAP
3/32" BRASS JOINER TUBE BRST022
F1
1/32" X 3/4" X 7-5/16" PLY FLAP TE (CUT FROM DC3TW30)
FLAP LEADING EDGE (CUT FROM 1/4" X 3/8" X 24" BALSA) DC3TW21
FLAP HINGE BLOCKS (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
ADDITIONAL FLAP RIBS (CUT FROM LEFTOVER 3/32" BALSA)
TOP VIEW
TOP/BOTTOM (4)
SIDES (4)
HOLE PATTERNS
REAR (2) FIREWALL (4)
ENGINE MOUNT PARTS FOR O.S. .30 WANKEL ENGINE (OPTIONAL, CUT FROM 1/8" PLY)
THIS IS A VIEW OF THE TOP OF THE
CENTER SECTION
THE 3/32" BALSA SKIN IS REMOVED FOR CLARITY.
4" L
O.S. FS-40 SURPASS SHOWN (COMMOD049) (NOT INCLUDED)
4-40 X 1" SOCKET HEAD CAP SCREW, LOCK WASHER SCRW008 WSHR005
4-40 X 1" SOCKET HEAD CAP SCREW, FLAT WASHER, LOCK WASHER SCRW008 WSHR003 WSHR005
1/2" X 1/2" X 1-1/16" BASS COWL MOUNTING POST DC3TW31
DIE-CUT 1/8" BALSA COWL RINGS DC3TW07
DIE-CUT 1/16" PLY COWL RINGS DC3TW12
W3A
4-40 BLIND NUT NUT5001
1/2" X 3/4" X 4-3/4" GROOVED BASSWOOD FIXED GEAR RAIL DC3TW36
1/2" X 3/4" X 1" MAPLE FIXED GEAR BLOCK PB3W27
BASSWOOD CENTER SPAR (CUT FROM 1/4" X 3/8" X 36") BDM9F14
1/16" PLY SPAR BRACES (RETRACTS ONLY) (CUT FROM DC3TW42)
AFT LANDING GEAR RAIL 1/2" X 3/4" X 3-1/2" BASSWOOD STICK DC3TW33
SERVO BAY RAILS (CUT FROM 1/4" X 3/8" X 36" BASSWOOD STICK) BDM9F14
DIE-CUT 1/16" PLY FLAP SERVO HATCH DC3TW12
#2 X 3/8" FLAT HEAD SHEET METAL SCREWS SCRW069
FLAP SERVO POSITION
ENGINE
OPENING FOR FUEL LINES
NACELLE TOP/BOTTOM OUTLINE
1/16" PLY STRIPS (LEFTOVER PLY)
1/4" X 3/8" BASS AIR CYLINDER MOUNT RAIL (CUT FROM BDM9F14)
DIE-CUT 1/8" BALSA CENTER TE SPAR DC3TW04
W1D
CUT HERE
DIE-CUT 1/8" PLY TE DIHEDRAL JOINER DC3TW11
W3F
LEFTOVER 1/8" BALSA
DIE-CUT 1/8" PLY WING BOLT PLATE DC3TW11
1/32" X 3/4" X 21-9/16" PLY WING TE DC3TW29
Futaba
FM
4" R
O.S. .40 LA SHOWN (COMMOD049) (NOT INCLUDED)
#2 X 1/2" BUTTON HEAD COWL MOUNT SCREW SCRW088
1/2" X 1/2" X 1-1/16" BASS COWL MOUNTING POST DC3TW31
1/4" X 1-3/8" DOWEL (CUT FROM DOWEL017)
DIE-CUT 1/8" PLY FORWARD DOWEL BRACE DC3TW11
DIE-CUT 1/8" PLY AFT DOWEL BRACE DC3TW11
3/8" X 1/2" X 1/2" BASS COWL RING SPACER (CUT FROM DC3TW24)
.20 TO .48 ADJUSTABLE ENGINE MOUNT EM2048
C1S
C1T
C2T
C3T
C4T
C5T
W3A
1/2" X 3/4" X 4-3/4" GROOVED BASSWOOD FIXED GEAR RAIL (CUT TO SIZE) DC3TW36
LOCATION OF OPTIONAL AIR TANK
LOCATION OF OPTIONAL RETRACT AIR VALVE AND SERVO
DIE-CUT 1/8" PLY CENTER SPAR WEB DC3TW09
1/4" TRI STOCK CUT FROM DC3TW23
BALANCE RANGE
1/16" PLY SPAR BRACES (CUT FROM DC3TW42)
5/16" X 3/4" X 7/8" BASSWOOD SERVO MOUNT BLOCKS PB5W08
AFT LANDING GEAR RAIL 1/2" X 3/4" X 3-1/2" BASSWOOD STICK DC3TW33
SERVO BAY RAILS (CUT FROM 1/4" X 3/8" X 36" BASSWOOD STICK) BDM9F14
DIE-CUT 1/16" PLY FLAP SERVO HATCH DC3TW12
1/4" X 3/8" BASS AIR CYLINDER MOUNT RAIL (CUT FROM BDM9F14)
DIE-CUT 1/8" BALSA CENTER TE SPAR DC3TW04
W1D
FLAP
ENGINE
LEFTOVER 1/8" BALSA
CUT HERE
DIE-CUT 1/8" PLY TE DIHEDRAL JOINER DC3TW11
W3F
W3AF
NOTE
SEE MANUAL FOR SPAR JOINING DETAILS
DIE-CUT 1/8" BALSA GUSSET DC3TW06
BEVEL FRONT OF SPAR WEB AND SPAR TO MATCH THIS ANGLE.
THIS IS A VIEW OF THE TOP OF THE
RIGHT WING PANEL
THIS PLAN SHOWS THE INSTALLATION OF THE OPTIONAL FLAPS. ALL OF THE BALSA SHEETING IS REMOVED FOR CLARITY.
FLAP HINGE BLOCKS (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
ALTERNATE SERVO RAIL LOCATION
#2 X 3/8" FLAT HEAD SHEET METAL SCREWS SCRW069
SERVO BAY RAILS (CUT FROM 1/4" X 3/8" X 36" BASSWOOD STICK) BDM9F14
DIE-CUT 1/16" PLY AIL. SERVO HATCH DC3TW12
AILERON HINGE BLOCK (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
DIE-CUT 1/8" BALSA OUTER TE SPAR DC3TW04
CA HINGE (CUT FROM 2" X 9" CA HINGE STRIP) NYLON07
BEVEL TO FIT INNER TE SPAR
FLAP HINGE NYLON81
DIE-CUT 1/8" BALSA INNER TE SPAR DC3TW06
SHAPED 3/4" BALSA WING TIP DC3TW27
LEFTOVER BALSA
1/4" X 3/4" X 24" BALSA AILERON LEADING EDGE DC3TW22
AILERON HINGE BLOCK (CUT FROM LEFTOVER 3/32" BALSA)
RIGHT AILERON
ALTERNATE SCALE RIB LOCATIONS
AILERON RIBS (CUT FROM 3/32" X 3/8" X 24" BALSA) DC3TW20
DIE-CUT 1/8" PLY CONTROL HORN MOUNT DC3TW10
DIE-CUT 3/32" BALSA AILERON CORE DC3TW05
1/32" X 3/4" X 7-5/16" PLY FLAP TE (CUT FROM DC3TW30)
FLAP LEADING EDGE (CUT FROM 1/4" X 3/8" X 24" BALSA) DC3TW21
ADDITIONAL FLAP RIBS (CUT FROM LEFTOVER 3/32" BALSA)
FLAP HINGE BLOCKS (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
3/32" BRASS JOINER TUBE BRST022
F1
CENTER FLAP
DIE-CUT 1/8" PLY CONTROL HORN MOUNT DC3TW10
FLAP HINGE NYLON81
FLAP LEADING EDGE (CUT FROM 1/4" X 3/8" X 24" BALSA) DC3TW21
DIE-CUT 1/8" PLY CONTROL HORN MOUNT DC3TW10
3/32" BRASS JOINER TUBE BRST022
1/32" X 3/4" X 21-9/16" PLY FLAP TE DC3TW29
FLAP HINGE BLOCKS (CUT FROM 1/4" X 1/2" X 24" BALSA) DC3TW18
3/32" BRASS FLAP JOINER TUBE BRST022
1/16" X 2-3/4" FLAP JOINER WIRE WIRE026
FUEL TANK HOOKS MAKE TWO
1/16" MUSIC WIRE WIRE098
WING PLAN No. DC3TP01
DOUGLAS DC-3
DESIGNED AND DRAWN BY: Ernest J. LeClair
INSTRUCTIONS BY: Tim Lampe
TOP FLITE MODELS
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TOP FLITE
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SPECIFICATIONS
WING SPAN----------82-1/2"
WING AREA----------750 sq. in.
WING LOADING----24.6-30.7 oz/sq. ft.
WEIGHT----------8 to 10 lbs.
ENGINE----------(2) .25-.40 2C
(2) .40-.52 4C
(2) .30 WANKEL
RADIO----------4-8 CHANNELS