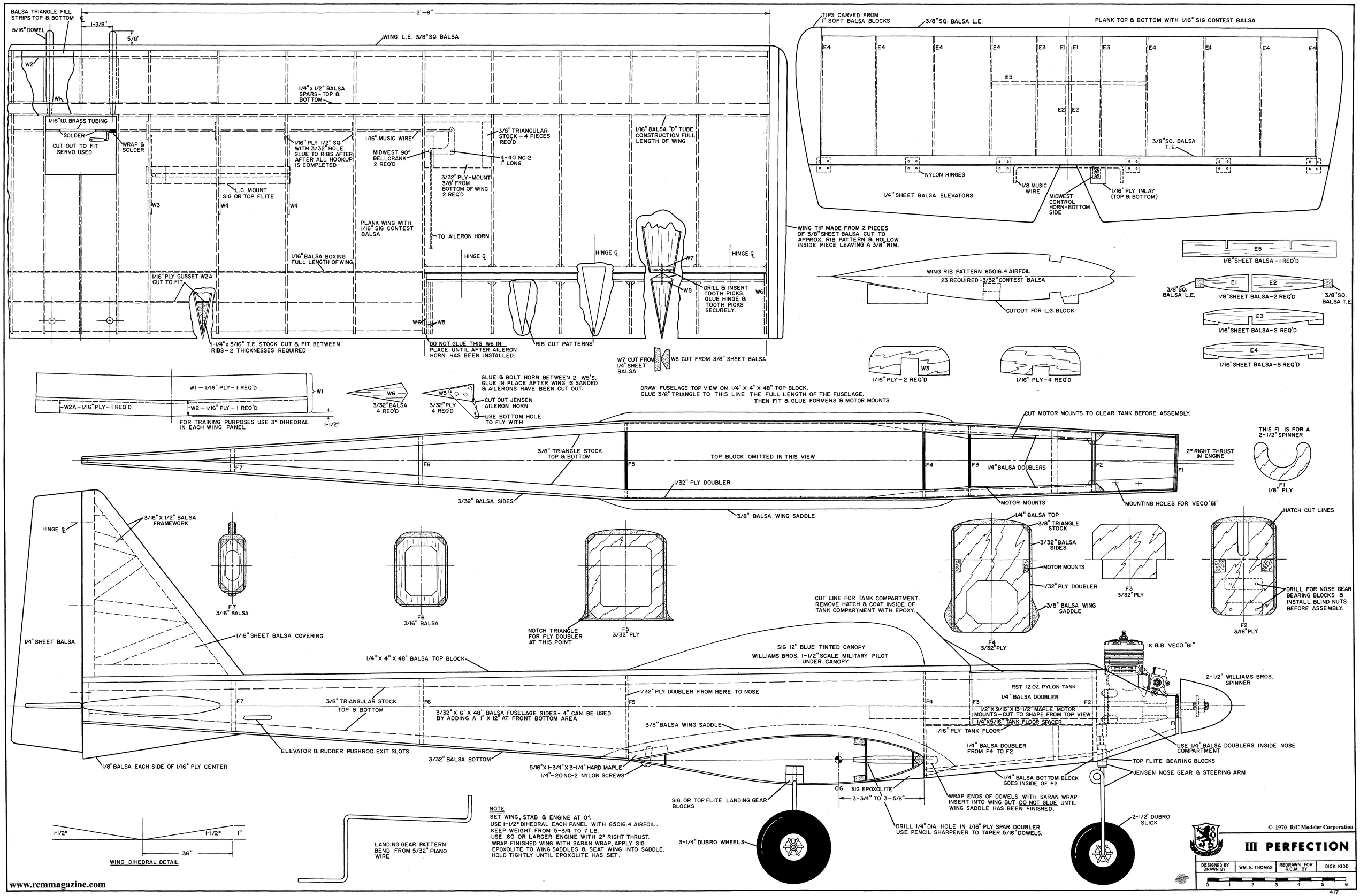
BALSA TRIANGLE FILL STRIPS TOP & BOTTOM
5/16" DOWEL
1-3/8"
5/8"
2'-6"
WING L.E. 3/8" SQ. BALSA
W2
W1
1/4" x 1/2" BALSA SPARS - TOP & BOTTOM
1/16" I.D. BRASS TUBING
SOLDER
WRAP & SOLDER
CUT OUT TO FIT SERVO USED
1/16" PLY 1/2" SQ. WITH 3/32" HOLE. GLUE TO RIBS AFTER AFTER ALL HOOKUP IS COMPLETED
1/16" MUSIC WIRE
MIDWEST 90° BELLCRANK 2 REQ'D
3/8" TRIANGULAR STOCK - 4 PIECES REQ'D
4-40 NC-2 1" LONG
3/32" PLY - MOUNT 3/8" FROM BOTTOM OF WING 2 REQ'D
1/16" BALSA "D" TUBE CONSTRUCTION FULL LENGTH OF WING
L.G. MOUNT SIG OR TOP FLITE
W3
W4
W4
PLANK WING WITH 1/16" SIG CONTEST BALSA
TO AILERON HORN
HINGE ℄
HINGE ℄
HINGE ℄
1/16" BALSA BOXING FULL LENGTH OF WING
1/16" PLY GUSSET W2A CUT TO FIT
W7
W8
DRILL & INSERT TOOTH PICKS. GLUE HINGE & TOOTH PICKS SECURELY.
W6
W6
W5
1-1/4" x 5/16" T.E. STOCK CUT & FIT BETWEEN RIBS - 2 THICKNESSES REQUIRED
DO NOT GLUE THIS W6 IN PLACE UNTIL AFTER AILERON HORN HAS BEEN INSTALLED.
RIB CUT PATTERNS
W7 CUT FROM 1/4" SHEET BALSA
W8 CUT FROM 3/8" SHEET BALSA
TIPS CARVED FROM 1" SOFT BALSA BLOCKS
3/8" SQ. BALSA L.E.
PLANK TOP & BOTTOM WITH 1/16" SIG CONTEST BALSA
E4
E4
E4
E4
E3
E1
E1
E3
E4
E4
E4
E4
E5
E2
E2
3/8" SQ. BALSA T.E.
NYLON HINGES
1/8 MUSIC WIRE
1/16" PLY INLAY (TOP & BOTTOM)
1/4" SHEET BALSA ELEVATORS
MIDWEST CONTROL HORN - BOTTOM SIDE
WING TIP MADE FROM 2 PIECES OF 3/8" SHEET BALSA. CUT TO APPROX. RIB PATTERN & HOLLOW INSIDE PIECE LEAVING A 3/8" RIM.
WING RIB PATTERN 65016.4 AIRFOIL
23 REQUIRED - 3/32" CONTEST BALSA
CUTOUT FOR L.G. BLOCK
E5
1/8" SHEET BALSA - 1 REQ'D
3/8" SQ. BALSA L.E.
E1
E2
1/8" SHEET BALSA - 2 REQ'D
3/8" SQ. BALSA T.E.
E3
1/16" SHEET BALSA - 2 REQ'D
E4
1/16" SHEET BALSA - 8 REQ'D
W3
1/16" PLY - 2 REQ'D
1/16" PLY - 4 REQ'D
W1 - 1/16" PLY - 1 REQ'D
W1
W2A - 1/16" PLY - 1 REQ'D
W2 - 1/16" PLY - 1 REQ'D
FOR TRAINING PURPOSES USE 3° DIHEDRAL IN EACH WING PANEL
1-1/2°
W6
3/32" BALSA 4 REQ'D
W5
3/32" PLY 4 REQ'D
GLUE & BOLT HORN BETWEEN 2 W5'S. GLUE IN PLACE AFTER WING IS SANDED & AILERONS HAVE BEEN CUT OUT.
CUT OUT JENSEN AILERON HORN
USE BOTTOM HOLE TO FLY WITH
DRAW FUSELAGE TOP VIEW ON 1/4" X 4" X 48" TOP BLOCK. GLUE 3/8" TRIANGLE TO THIS LINE THE FULL LENGTH OF THE FUSELAGE. THEN FIT & GLUE FORMERS & MOTOR MOUNTS.
CUT MOTOR MOUNTS TO CLEAR TANK BEFORE ASSEMBLY.
3/8" TRIANGLE STOCK TOP & BOTTOM
TOP BLOCK OMITTED IN THIS VIEW
2° RIGHT THRUST IN ENGINE
F7
F6
F5
F4
F3
F2
F1
1/4" BALSA DOUBLERS
1/32" PLY DOUBLER
3/32" BALSA SIDES
MOTOR MOUNTS
MOUNTING HOLES FOR VECO '61'
3/8" BALSA WING SADDLE
THIS F1 IS FOR A 2-1/2" SPINNER
F1
1/8" PLY
HINGE ℄
3/16" X 1/2" BALSA FRAMEWORK
1/4" SHEET BALSA
1/16" SHEET BALSA COVERING
F7
3/16" BALSA
F6
3/16" BALSA
NOTCH TRIANGLE FOR PLY DOUBLER AT THIS POINT.
F5
3/32" PLY
1/4" BALSA TOP
3/8" TRIANGLE STOCK
3/32" BALSA SIDES
MOTOR MOUNTS
1/32" PLY DOUBLER
3/8" BALSA WING SADDLE
F4
3/32" PLY
F3
3/32" PLY
HATCH CUT LINES
DRILL FOR NOSE GEAR BEARING BLOCKS & INSTALL BLIND NUTS BEFORE ASSEMBLY.
F2
3/16" PLY
CUT LINE FOR TANK COMPARTMENT. REMOVE HATCH & COAT INSIDE OF TANK COMPARTMENT WITH EPOXY.
SIG 12" BLUE TINTED CANOPY
WILLIAMS BROS. 1-1/2" SCALE MILITARY PILOT UNDER CANOPY
1/4" X 4" X 48" BALSA TOP BLOCK
K & B VECO "61"
2-1/2" WILLIAMS BROS. SPINNER
1/32" PLY DOUBLER FROM HERE TO NOSE
RST 12 OZ. PYLON TANK
1/4" BALSA DOUBLER
1/2" X 9/16" X 3-1/2" MAPLE MOTOR MOUNTS - CUT TO SHAPE FROM TOP VIEW
1/4" X 5/16" TANK FLOOR SPACER
1/16" PLY TANK FLOOR
F7
3/8" TRIANGULAR STOCK TOP & BOTTOM
F6
3/32" X 6" X 48" BALSA FUSELAGE SIDES - 4" CAN BE USED BY ADDING A 1" X 12" AT FRONT BOTTOM AREA
F5
F4
F3
F2
F1
3/8" BALSA WING SADDLE
ELEVATOR & RUDDER PUSHROD EXIT SLOTS
1/4" BALSA DOUBLER FROM F4 TO F2
USE 1/4" BALSA DOUBLERS INSIDE NOSE COMPARTMENT
1/8" BALSA EACH SIDE OF 1/16" PLY CENTER
3/32" BALSA BOTTOM
5/16" X 1-3/4" X 3-1/4" HARD MAPLE
1/4"-20 NC-2 NYLON SCREWS
TOP FLITE BEARING BLOCKS
JENSEN NOSE GEAR & STEERING ARM
1/4" BALSA BOTTOM BLOCK GOES INSIDE OF F2
CG
SIG EPOXOLITE
3-3/4" TO 3-5/8"
SIG OR TOP FLITE LANDING GEAR BLOCKS
WRAP ENDS OF DOWELS WITH SARAN WRAP INSERT INTO WING BUT DO NOT GLUE UNTIL WING SADDLE HAS BEEN FINISHED.
DRILL 1/4" DIA. HOLE IN 1/16" PLY SPAR DOUBLER USE PENCIL SHARPENER TO TAPER 5/16" DOWELS.
2-1/2" DUBRO SLICK
3-1/4" DUBRO WHEELS
1-1/2°
1-1/2°
1"
36"
WING DIHEDRAL DETAIL
LANDING GEAR PATTERN BEND FROM 5/32" PIANO WIRE
NOTE
SET WING, STAB & ENGINE AT 0°.
USE 1-1/2° DIHEDRAL EACH PANEL WITH 65016.4 AIRFOIL.
KEEP WEIGHT FROM 5-3/4 TO 7 LB.
USE .60 OR LARGER ENGINE WITH 2° RIGHT THRUST.
WRAP FINISHED WING WITH SARAN WRAP, APPLY SIG EPOXOLITE TO WING SADDLES & SEAT WING INTO SADDLE. HOLD TIGHTLY UNTIL EPOXOLITE HAS SET.
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III PERFECTION
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WM. E. THOMAS
REDRAWN FOR R.C.M. BY
DICK KIDD
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