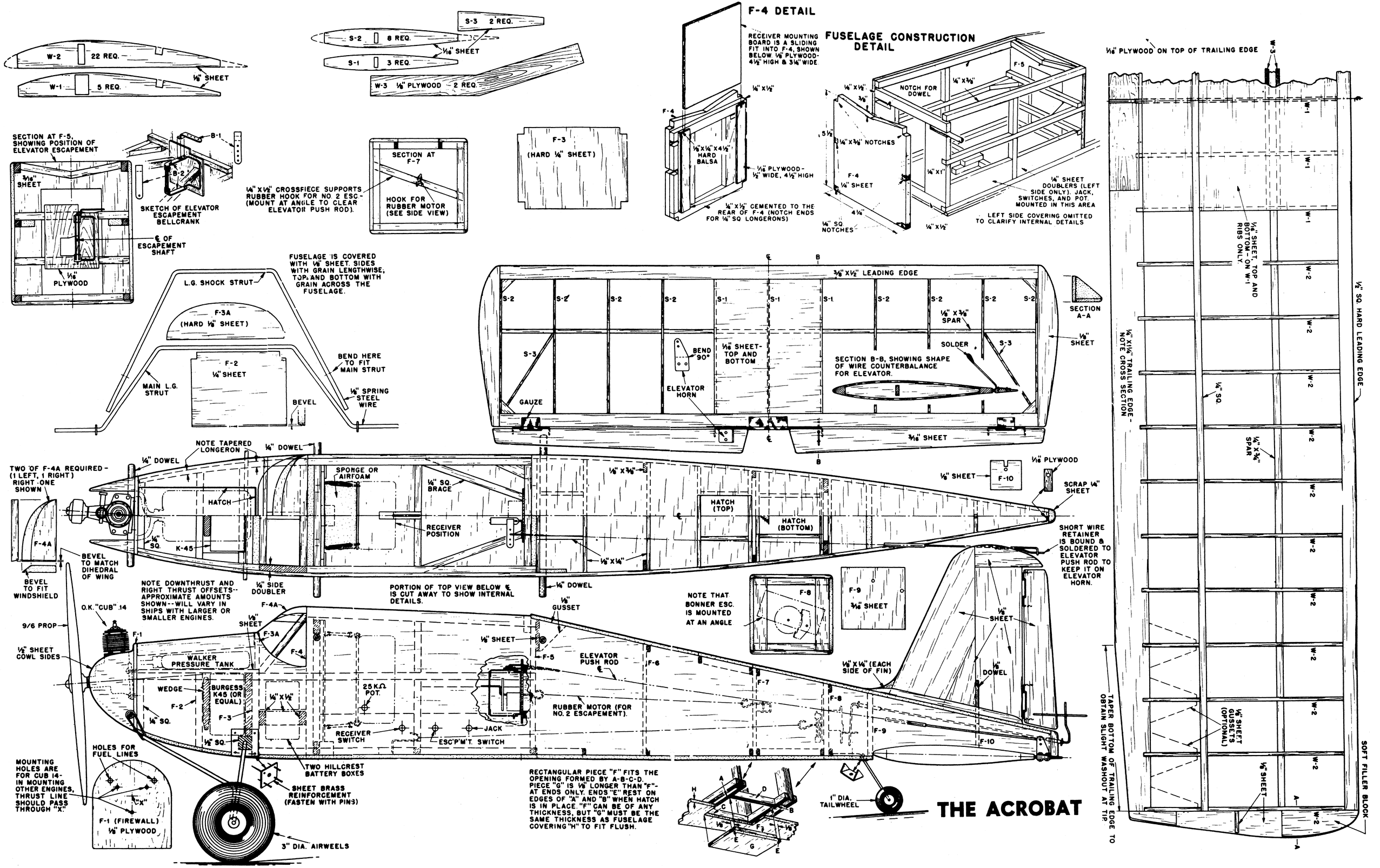
W-2 22 REQ.
W-1 5 REQ.
1/16" SHEET
S-3 2 REQ.
S-2 8 REQ.
S-1 3 REQ.
1/16" SHEET
W-3 1/8" PLYWOOD 2 REQ.
F-4 DETAIL
RECEIVER MOUNTING BOARD IS A SLIDING FIT INTO F-4, SHOWN BELOW. 1/8" PLYWOOD- 4 1/2" HIGH & 3 1/4" WIDE.
1/4" X 1/2"
1/8" X 1/4" X 4 1/2" HARD BALSA
1/16" PLYWOOD- 1/2" WIDE, 4 1/2" HIGH
1/4" X 1/2" CEMENTED TO THE REAR OF F-4 (NOTCH ENDS FOR 1/4" SQ LONGERONS)
FUSELAGE CONSTRUCTION DETAIL
NOTCH FOR DOWEL
1/4" X 3/8"
1/4" X 1/2"
3/8"
5 1/2"
1/4" X 3/8" NOTCHES
F-4 1/4" SHEET
4 1/4"
1/4" SQ NOTCHES
1/4" X 1"
1/4" X 1/2"
1/4" SHEET DOUBLERS (LEFT SIDE ONLY). JACK, SWITCHES, AND POT. MOUNTED IN THIS AREA
LEFT SIDE COVERING OMITTED TO CLARIFY INTERNAL DETAILS
1/16" PLYWOOD ON TOP OF TRAILING EDGE
W-3
W-1
W-2
1/4" SHEET, TOP AND BOTTOM-ON W-1 RIBS ONLY.
1/4" X 1 1/4" TRAILING EDGE- NOTE CROSS SECTION
1/4" SQ.
1/4" X 3/4" SPAR
1/8" SHEET GUSSETS (OPTIONAL)
1/8" SHEET
1/2" SQ. HARD LEADING EDGE
SOFT FILLER BLOCK
TAPER BOTTOM OF TRAILING EDGE TO OBTAIN SLIGHT WASHOUT AT TIP.
SECTION AT F-5, SHOWING POSITION OF ELEVATOR ESCAPEMENT
3/16" SHEET
B-1
B-2
SKETCH OF ELEVATOR ESCAPEMENT BELLCRANK
℄ OF ESCAPEMENT SHAFT
1/8" PLYWOOD
1/4" X 1/2" CROSSFIECE SUPPORTS RUBBER HOOK FOR NO. 2 ESC- (MOUNT AT ANGLE TO CLEAR ELEVATOR PUSH ROD).
SECTION AT F-7
HOOK FOR RUBBER MOTOR (SEE SIDE VIEW)
F-3 (HARD 1/4" SHEET)
FUSELAGE IS COVERED WITH 1/8" SHEET. SIDES WITH GRAIN LENGTHWISE, TOP AND BOTTOM WITH GRAIN ACROSS THE FUSELAGE.
L.G. SHOCK STRUT
F-3A (HARD 1/8" SHEET)
F-2 1/4" SHEET
BEND HERE TO FIT MAIN STRUT
MAIN L.G. STRUT
1/8" SPRING STEEL WIRE
BEVEL
3/8" X 1 1/2" LEADING EDGE
S-2
S-3
S-1
1/8" X 3/8" SPAR
SECTION A-A
1/8" SHEET
BEND 90°
1/16" SHEET- TOP AND BOTTOM
SOLDER
SECTION B-B, SHOWING SHAPE OF WIRE COUNTERBALANCE FOR ELEVATOR.
GAUZE
ELEVATOR HORN
3/16" SHEET
NOTE TAPERED LONGERON
1/4" DOWEL
TWO OF F-4A REQUIRED- (1 LEFT, 1 RIGHT) RIGHT ONE SHOWN
F-4A
SPONGE OR AIRFOAM
1/4" SQ. BRACE
1/8" X 3/8"
1/16" PLYWOOD
1/8" SHEET
F-10
SCRAP 1/4" SHEET
HATCH
1/4" SQ.
K-45
RECEIVER POSITION
HATCH (TOP)
HATCH (BOTTOM)
1/8" X 1/4"
SHORT WIRE RETAINER IS BOUND & SOLDERED TO ELEVATOR PUSH ROD TO KEEP IT ON ELEVATOR HORN.
BEVEL TO MATCH DIHEDRAL OF WING
BEVEL TO FIT WINDSHIELD
NOTE DOWNTHRUST AND RIGHT THRUST OFFSETS-- APPROXIMATE AMOUNTS SHOWN--WILL VARY IN SHIPS WITH LARGER OR SMALLER ENGINES.
1/4" SIDE DOUBLER
PORTION OF TOP VIEW BELOW ℄ IS CUT AWAY TO SHOW INTERNAL DETAILS.
1/4" DOWEL
1/8" GUSSET
NOTE THAT BONNER ESC. IS MOUNTED AT AN ANGLE
F-8
F-9
3/16" SHEET
O.K. "CUB" .14
9/6 PROP
F-1
1/8" SHEET
F-3A
F-4
1/8" SHEET
1/2" SHEET COWL SIDES
WALKER PRESSURE TANK
F-5
ELEVATOR PUSH ROD ℄
F-6
1/8" X 1/4" (EACH SIDE OF FIN)
1/8" DOWEL
WEDGE
BURGESS K45 (OR EQUAL)
25 KΩ POT.
F-2
F-3
1/4" X 1/2"
F-7
F-8
RUBBER MOTOR (FOR NO. 2 ESCAPEMENT).
1/4" SQ.
RECEIVER SWITCH
JACK
ESC'P'M'T. SWITCH
F-9
F-10
1/2" SQ.
HOLES FOR FUEL LINES
TWO HILLCREST BATTERY BOXES
MOUNTING HOLES ARE FOR CUB 14- IN MOUNTING OTHER ENGINES. THRUST LINE SHOULD PASS THROUGH "X".
"X"
SHEET BRASS REINFORCEMENT (FASTEN WITH PINS)
F-1 (FIREWALL) 1/8" PLYWOOD
3" DIA. AIRWEELS
RECTANGULAR PIECE "F" FITS THE OPENING FORMED BY A-B-C-D. PIECE "G" IS 1/8" LONGER THAN "F"- AT ENDS ONLY. ENDS "E" REST ON EDGES OF "A" AND "B" WHEN HATCH IS IN PLACE. "F" CAN BE OF ANY THICKNESS, BUT "G" MUST BE THE SAME THICKNESS AS FUSELAGE COVERING "H" TO FIT FLUSH.
1" DIA. TAILWHEEL
THE ACROBAT