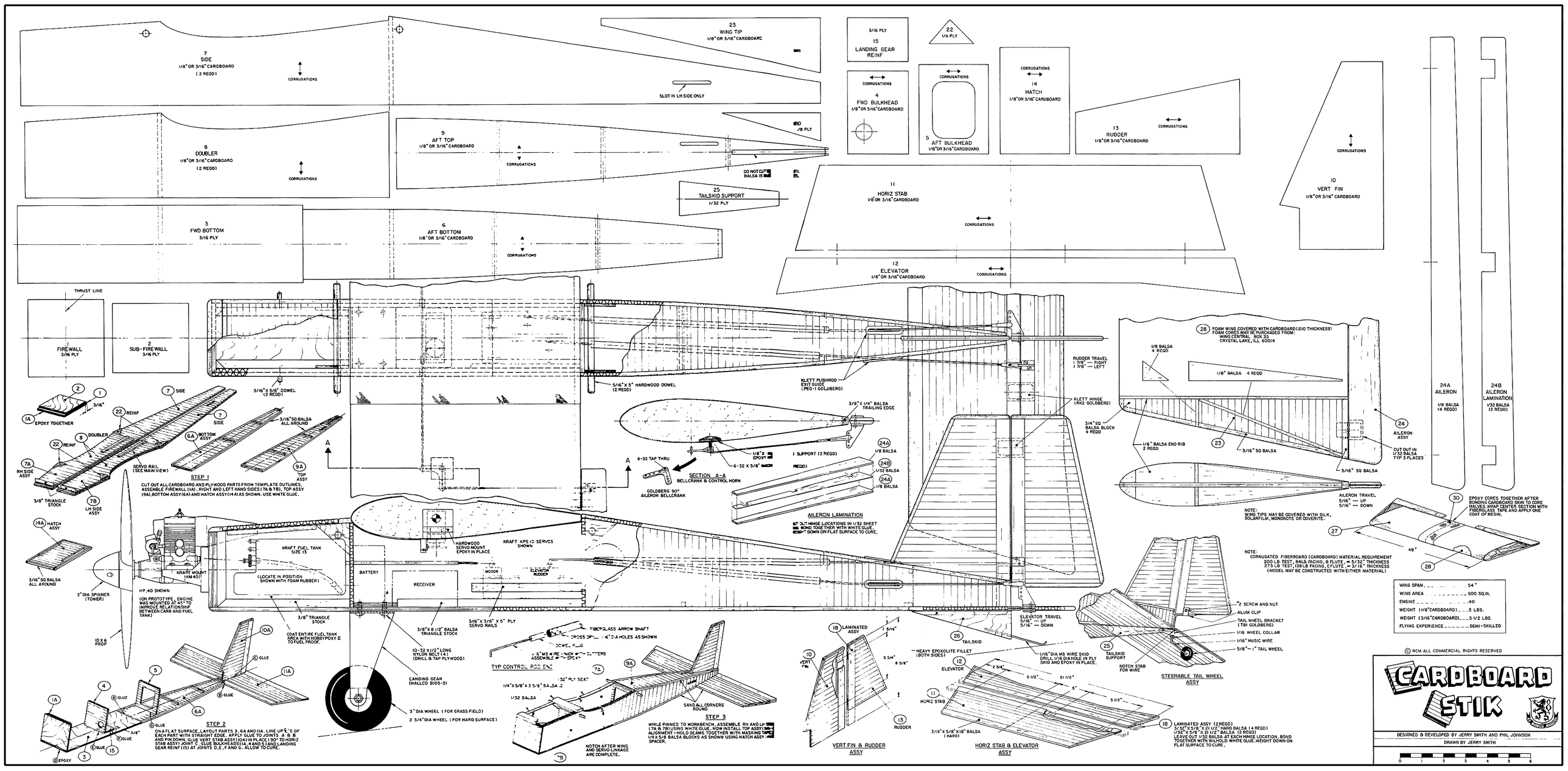
7 SIDE 1/8" OR 3/16" CARDBOARD (2 REQD)
CORRUGATIONS
23 WING TIP 1/8" OR 3/16" CARDBOARD
SLOT IN LH SIDE ONLY
3/16 PLY 15 LANDING GEAR REINF
22 1/8 PLY
4 FWD BULKHEAD 1/8" OR 3/16" CARDBOARD
5 AFT BULKHEAD 1/8" OR 3/16" CARDBOARD
14 HATCH 1/8" OR 3/16" CARDBOARD
13 RUDDER 1/8" OR 3/16" CARDBOARD
10 VERT FIN 1/8" OR 3/16" CARDBOARD
8 DOUBLER 1/8" OR 3/16" CARDBOARD (2 REQD)
9 AFT TOP 1/8" OR 3/16" CARDBOARD
1/8 PLY
DO NOT CUT BALSA IS
25 TAILSKID SUPPORT 1/32 PLY
11 HORIZ STAB 1/8" OR 3/16" CARDBOARD
12 ELEVATOR 1/8" OR 3/16" CARDBOARD
3 FWD BOTTOM 3/16 PLY
6 AFT BOTTOM 1/8" OR 3/16" CARDBOARD
THRUST LINE
1 FIREWALL 3/16 PLY
2 SUB-FIREWALL 3/16 PLY
3/16" X 5/8" DOWEL (2 REQD)
5/16" X 5" HARDWOOD DOWEL (2 REQD)
KLETT PUSHROD EXIT GUIDE (PEG-1 GOLDBERG)
3/8" X 1/4" BALSA TRAILING EDGE
KLETT HINGE (RK2 GOLDBERG)
RUDDER TRAVEL 1 7/8" — RIGHT 1 7/8" — LEFT
28 FOAM WING COVERED WITH CARDBOARD (.010 THICKNESS) FOAM CORES MAY BE PURCHASED FROM: WING CENTRAL BOX 33 CRYSTAL LAKE, ILL 60014
1/8 BALSA 4 REQD
1/8" BALSA 4 REQD
3/4" SQ BALSA BLOCK 4 REQD
1/8" BALSA END RIB 2 REQD
23
3/16" SQ BALSA
24 AILERON ASSY
CUT OUT IN 1/32 BALSA TYP 3 PLACES
5/16" SQ BALSA
AILERON TRAVEL 5/16" — UP 5/16" — DOWN
24A AILERON 1/8 BALSA (4 REQD)
24B AILERON LAMINATION 1/32 BALSA (2 REQD)
NOTE: WING TIPS MAY BE COVERED WITH SILK, SOLARFILM, MONOKOTE OR OVERITE.
30 EPOXY CORES TOGETHER AFTER BONDING CARDBOARD SKIN TO CORE HALVES. WRAP CENTER SECTION WITH FIBERGLASS TAPE AND APPLY ONE COAT OF RESIN.
27
48"
28
7 SIDE
22 REINF
8 DOUBLER
7A RH SIDE ASSY
3/8" TRIANGLE STOCK
7B LH SIDE ASSY
6A BOTTOM ASSY
3/16" SQ BALSA ALL AROUND
9A TOP ASSY
SERVO RAIL (SEE MAIN VIEW)
1A EPOXY TOGETHER
3/16"
STEP 1
CUT OUT ALL CARDBOARD AND PLYWOOD PARTS FROM TEMPLATE OUTLINES. ASSEMBLE FIREWALL (1A), RIGHT AND LEFT HAND SIDES (7A & 7B), TOP ASSY (9A), BOTTOM ASSY (6A) AND HATCH ASSY (14A) AS SHOWN. USE WHITE GLUE.
6-32 TAP THRU
6-32 X 5/8"
1/8" X 1" EPOXY
1 SUPPORT (2 REQD)
REQD)
SECTION A-A
BELLCRANK & CONTROL HORN
GOLDBERG 90° AILERON BELLCRANK
24A 1/8 BALSA
24B 1/32 BALSA
24A 1/8 BALSA
AILERON LAMINATION
HINGE LOCATIONS IN 1/32 SHEET BOND TOGETHER WITH WHITE GLUE. DOWN ON FLAT SURFACE TO CURE.
14A HATCH ASSY
3/16" SQ BALSA ALL AROUND
2" DIA SPINNER (TOWER)
HP .40 SHOWN
(ON PROTOTYPE, ENGINE WAS MOUNTED AT 45° TO IMPROVE RELATIONSHIP BETWEEN CARB AND FUEL TANK)
10 X 6 PROP
KRAFT FUEL TANK SIZE 13
KRAFT MOUNT (KM 40)
(LOCATE IN POSITION SHOWN WITH FOAM RUBBER)
COAT ENTIRE FUEL TANK AREA WITH HOBBYPOXY II TO FUEL PROOF.
3/8" TRIANGLE STOCK
BATTERY
RECEIVER
MOTOR
ELEVATOR RUDDER
HARDWOOD SERVO MOUNT EPOXY IN PLACE
KRAFT KPS 10 SERVOS SHOWN
3/16" X 3/8" X 5" PLY SERVO RAILS
3/8" X 8 1/2" BALSA TRIANGLE STOCK
10-32 X 1/2" LONG NYLON BOLT (4) (DRILL & TAP PLYWOOD)
LANDING GEAR (HALLCO B105-5)
3" DIA WHEEL (FOR GRASS FIELD)
2 3/4" DIA WHEEL (FOR HARD SURFACE)
FIBERGLASS ARROW SHAFT
CROSS DRILL .16" DIA HOLES AS SHOWN
DOWEL PLUG
TYP CONTROL ROD END
10A
11A
6A
9A
GLUE
STEP 2
ON A FLAT SURFACE, LAYOUT PARTS 3, 6A AND 11A. LINE UP ℄'S OF EACH PART WITH STRAIGHT EDGE. APPLY GLUE TO JOINTS A & B AND PIN DOWN. GLUE VERT STAB ASSY (10A) IN PLACE (90° TO HORIZ STAB ASSY) JOINT C. GLUE BULKHEADS (1A, 4 AND 5) AND LANDING GEAR REINF (15) AT JOINTS D, E, F AND G. ALLOW TO CURE.
EPOXY
1/4" X 5/8" X 3 5/8" BALSA 2
1/32 BALSA
32" PLY SEAT
SAND ALL CORNERS ROUND
STEP 3
WHILE PINNED TO WORKBENCH, ASSEMBLE RH AND LH (7A & 7B) USING WHITE GLUE. NOW INSTALL TOP ASSY (9A) ALIGNMENT - HOLD SEAMS TOGETHER WITH MASKING TAPE 1/4 X 5/8 BALSA BLOCKS AS SHOWN USING HATCH ASSY SPACER.
NOTCH AFTER WING AND SERVO LINKAGE ARE COMPLETE.
18 LAMINATED ASSY
10 VERT FIN
13 RUDDER
VERT FIN & RUDDER ASSY
26 TAILSKID
HEAVY EPOXOLITE FILLET (BOTH SIDES)
12 ELEVATOR
11 HORIZ STAB
3/16" X 5/8" X 18" BALSA (HARD)
1/16" DIA MS WIRE SKID DRILL 1/16 DIA HOLE IN PLY SKID AND EPOXY IN PLACE.
25 TAILSKID SUPPORT
NOTCH STAB FOR WIRE
ELEVATOR TRAVEL 5/16" — UP 5/16" — DOWN
18 LAMINATED ASSY (2 REQD) 3/32" X 5/8" X 21 1/2" HARD BALSA (4 REQD) 1/32" X 5/8" X 21 1/2" BALSA (2 REQD) LEAVE OUT 1/32 BALSA AT EACH HINGE LOCATION. BOND TOGETHER WITH WILHOLD WHITE GLUE. WEIGHT DOWN ON FLAT SURFACE TO CURE.
HORIZ STAB & ELEVATOR ASSY
2 SCREW AND NUT
ALUM CLIP
TAIL WHEEL BRACKET (TB1 GOLDBERG)
1/16 WHEEL COLLAR
1/16" MUSIC WIRE
5/8" — 1" TAIL WHEEL
STEERABLE TAIL WHEEL ASSY
NOTE: CORRUGATED FIBERBOARD (CARDBOARD) MATERIAL REQUIREMENT 200 LB TEST, 84LB FACING, B FLUTE, = 5/32" THICKNESS 275 LB TEST, 138 LB FACING, C FLUTE, = 3/16" THICKNESS (MODEL MAY BE CONSTRUCTED WITH EITHER MATERIAL)
WING SPAN 54"
WING AREA 600 SQ.IN.
ENGINE .40
WEIGHT (1/8" CARDBOARD) .5 LBS.
WEIGHT (3/16" CARDBOARD) 5 1/2 LBS.
FLYING EXPERIENCE SEMI-SKILLED
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CARDBOARD STIK
DESIGNED & DEVELOPED BY JERRY SMITH AND PHIL JOHNSON
DRAWN BY JERRY SMITH
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