ABC ROBIN

A25"SPAN SCALE MODEL FOR RUBBER OR CO_2 POWER
BY A. J. SEPHTON

IMPORTANT:
MODEL HAS A SMALL TAIL AND WILL BE UNSTABLE IF C.G. IS BEHIND POINT SHOWN.

FLIGHT PATTERN: ORIGINAL MODEL FLIES IN LEFT CIRCLE OF ABOUT 40FT. DIA. MODEL REQUIRED SLIGHT LEFT RUDDER, SLIGHT UP ELEVATOR AND 1/32"LEFT AILERON DOWN

COVER FUSELAGE SIDES AND TOP BETWEN A-A WITH PRE-SHRUNK AND DOPED AIRMAIL PAPER. USE 4 SECTIONS ON SIDES WITH JOINTS ALONG 3/32"SQ. UPRIGHTS. COVER REMAINDER WITH JAP TISSUE

NOTE: FUSELAGE UPRIGHTS SIZED 1/16"SQ. ARE SET BACK SO AS NOT TO SHOW THROUGH COVERING

SCALE PROP: TURN HUB FROM 3 LAYERS OF HARDWOOD 1/8"THICK BLADES ARE HELICALLY CARVED FROM 1/8"WOOD AND SET AT A SUITABLE ANGLE IN HUB.

BALSA BLISTER B3 B4 B5 B6 B7
B1
THRUST LINE
2.5° DOWN, NO SIDE
B2

FILLER CAPS TURNED FROM DOWEL

1/16"O.D. ALI TUBES

HATCH COVER

1/16"TRIANGULAR STOCK
BALANCE

HOLE FOR PITOT 1/16"

1/16"X3/32"

F2A F3 F6 F1 F2 F5

FALSE FLOOR

U/C STRUT

.020"HOOKS. HERE TO SECURE CANOPY AND ELEVATOR CABLES.

1/16"O.D. ALI TUBE

3/32"SQ.

3/32"SQ FIT AFTER ASSY.

1/16"SQ.

3/32"SQ.

1/16"SHEET ELEVATOR CABLE GUIDES

TENSION ELVATOR CABLES WITH RUBBER BANDS FIXED TO HOOKS INSIDE FUSELAGE

1/16"O.D. ALI TUBE. DRILL FUSELAGE 1/2"DEEP AND CYANO 7/16"LENGTH OF TUBE IN PLACE

HOLE TO SUIT MOTOR PEG

3/32"SQ.

1/16"SHEET

1/8"FILL

1/64"PLY INSIDE

0.015"WIRE SKID, BUILD UP SHAPE WITH BALSA

3 LAMINATIONS OF 1/32"X1/16"

1/32"SHEET RIBS

TYPICAL FIN SECTION

1/32".

1/16"X3/16"

HORN POSITION

LITHO PLATE HINGES

1/32"GUSSETS 3/16"X1/16"

MOTOR CUT-OUT NOT SHOWN IN THIS VIEW

DUMMY ENGINE

COVER ENTIRE FRONT FUSELAGE WITH 1/32"SHEET FROM F1 TO F6 FIX IN 8 SECTIONS USING CONTACT GLUE

B5 1/64"PLY
B6 1/16"SHEET

B7 1/16"PLY

F2 1/16"

F1 1/64"PLY NO HOLES

CUT OUT AND RE-USE AS B5/B6

FILLERS FIXED TO FALSE FLOOR.

1/64"PLY HATCH COVER

3/32"SQ. FUSELAGE FRAME

F2A 1/16"SHEET

.015"HOOK

CANOPY 1/64"PLY

1/64"PLY

1/16"ALI TUBE FIXED TO FUSELAGE

1/16"CROSSPIECE

CEMENT SKIN

.015"HOOK

1/8"CANOPY RIB

1/16"CROSSPIECE

1/64"PLY RUDDER CABLE GUIDES

1/32"SKIN

F3 1/16"

F4 1/16"

F5 1/16"

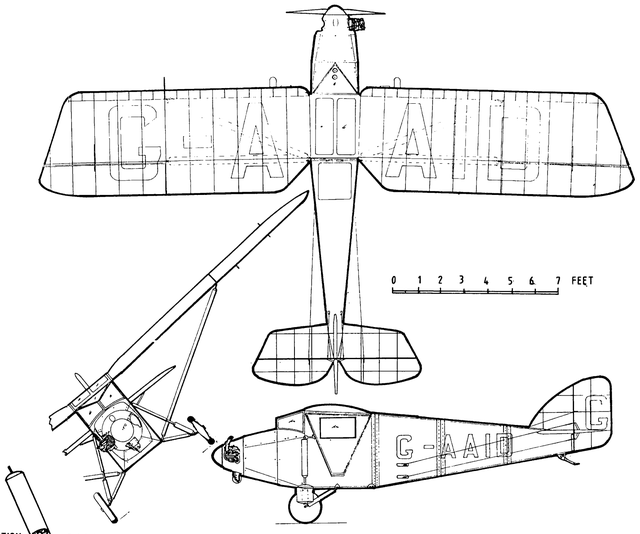
TOP U/C STRUT
BOTTOM U/C
REAR U/C
WING STRUT

CUT THESE FAIRINGS FROM THIN PLASTIC CAR AND FIX TO FUSELAGE WHERE NOTED

FIN SPAR SECTION

APPROX SHAPE OF WINDSCREEN TOP AND SIDE CUT OVERSIZE, TRIM TO FIT, SAND THEN CUT OUT FOR GLAZING

COVER PAPER JOINTS ON FUSELAGE SIDES WITH TISSUE "TAPE" SIMULATE RIVETS WITH SPOTS OF PVA GLUE



1/32"WIRE
CYANO
1/16"O.D. TUBE
SLIDE FIT
1/16"I.D. TUBE
FLATTEN AND DRILL 1/32"
1/32"WIRE

DETAILS OF SPRUNG U/C COVER WIRE AND TUBE (LEFT) WITH BALSA TO ACHIEVE FINAL SHAPE (RIGHT)

SECTION
2 LAMS. 1/16" SHEET OVER 1/32"WIRE

SECTION
1/8"SHEET LAMS. OVER 1/16"I.D. TUBE.

1/32"WIRE
1/16"I.D. ALI TUBE.
1/16"O.D. ALI TUBE.

14 BA BOLT
12 BA WASHER
PLASTIC CARD CAP
1/4"DIA. ALI TUBE PUSH FIT
1/64"PLY CORE
3/16"SHEET EACH SIDE TURN WHEEL ON ELECTRIC DRILL.

SECTION
1/32"WIRE
SILVER SOLDER
2 LAMS. 1/16"SHEET

NO. SIDE THRUST

RUBBER POWER VERSION:
HOLLOW NOSE BLOCK, FIT WEB FOR PECK THRUST BUTTON AND B5-B7 USE 6"PECK PROP
CO_2 VERSION HAS EXTRA FORMER B4 INSERTED AND BROWN TWIN BOLTED TO B4-B7. COWLING MADE FROM B1-B4 HOLOWED.
CO_2 TANK RESTS INTERNALLY BETWEEN F5 AND F6
(IN THIS POSITION IT IS PRONE TO ICING

3/32"SQ.
FALSE FLOOR

DUMMY 2 CYLINDER ABC "SCORPION" MOTOR FITTED ON RUBBER POWER VERSION: TURNED HARDWOOD CYLINDERS, PLUGS TURNED BAMBOO; PLUG LEADS AND SMALL PIPES FROM TELCO COPPER TUBE, EXHAUST PIPE ALI TUBE, VALVES 14 BA BOLT/PLASTIC CARD WASHER/SPRING, ROCKER ARMS FROM PLASTIC CARD; PUSHRODS FROM WIRE WITH BAMBOO TIP

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PITOT POSITION
1/16"SQ. L.E.
SOFT BLOCK SAND AFTER ASSEMBLY

SAND RIB AFTER ASSEMBLY
1/16"SHEET
THIN PLASTIC CARD INSPECTION HATCH UNDER EACH WING
TIPS FROM 3 LAMS. OF 1/16"X1/32"
SAND TIP LAMINATION TO SECTION BEFORE ASSEMBLY
1/32"SAND TO SECTION AFTER ASSEMBLY
1/16"WEB
1/32"
1/32"WEB TO TIP
HORN HERE
1/16"SHEET
1/16"RIBLET
1/32"GUSSETS BOTTOM ONLY
1/16"RIB
STRUT POINTS 1/16"O.D. ALI TUBE
1/32"GUSSETS
1/8"X1/16"T.E.
1/16"SQ. TOP AND BOTTOM
1/32"RIBS
1/32"WEBS
1/16"WEBS
1/16"SHEET GUSSETS CENTRAL
1/16"BETWEEN SPARS
1/16"O.D. ALI TUBE
1/16"O.D. ALI TUBE
1/32"SHEET BOTTOM ONLY THIS WING

FOR EASE OF WING CONSTRUCTION, DO NOT SHAPE SPARS OR TIP RIBS UNTIL AFTER COMPLETED WING IS LIFTED FROM PLAN

PORT WING

NOTE: WINGS SET TO FUSELAGE WITH 1 1/2° SWEEPBACK

STARBOARD WING

3 LAMINATIONS OF 1/32"X1/16"

T2
GUSSETS TOP AND BOTTOM
T1
T1
1/16"X3/16"
T2
HORN
1/32" GUSSETS
LITHO HINGES
1/16" RIBS
1/32"RIBS
STRUT POINT
1/16"SQ. L.E.

TAILPLANE CONSTRUCTION
LAMINATE OUTLINE ROUND TEMPLATE SAND TO 1/16"THICK, PIN TO PLAN OVER 1/16"PACKING. ASSEMBLE FROM 1/16"X3/16"SPARS AND 1/32"X3/16"RIBS SAND TO SECTION AFTER REMOVING FROM BUILDING BOARD

1/16"REAR SPAR
1/16"ELEVATOR SPAR
1/16"FRONT SPAR.
TAIL SPAR DETAILS

GUSSETS: ALL GUSSETS MADE AS TRIANGLES SAND TO CURVED SHAPE WHEN SET, USING GLASSPAPER GLUED TO DOWEL

T2
TAILPLANE RIBS
T1

WING RIBS 1/32"SHEET UNLESS NOTED

ROOT RIB

1/16"SHEET
SECTION AT REAR SPAR TIP
1/16"SHEET
1/32"WEBS
SECTION AT FRONT SPAR TIP

1/64"PLY
FINE METAL TUBE
PITOT TUBE PORT WING ONLY

RIB
MOORING RINGS 1/32" WIRE 1 EACH WING
SECTION AT FRONT SPAR ROOT
1/16"O.D. ALI TUBE
PITOT TUBES (WING TO FUSELAGE) FROM OLD TELCO COPPER TUBE WITH 0.015"WIRE CENTRE. CYANO TO WING AND EACH OTHER

DRILL 1/16"
1/32"WIRE
1/32"I.D. ALI TUBE (1/16"O.D.)
SECTION
CYANO 1/32"WIRE INTO 1/16"O.D. ALI TUBE AFTER ASSEMBLY OF MODEL TO PERMIT DIHEDRAL ADJUSTMENT

1/8"SHEET WING STRUTS
SECTION

1/8"X1/16"BALSA
TOP
FRONT
0.015"WIRE
TAILPLANE STRUTS

1/64"PLY AILERON HORNS
0.015"WIRE FREE TO SLIDE IN WING.
LITHO HINGE
AILERON
TELCO TUBE CYANOED

1/64"PLY RUDDER AND ELEVATOR HORNS.
COTTON ON ELEVATOR
0.015"WIRE ON RUDDER
TELCO TUBE

WING DOWELS 4 OFF 1/32"WIRE SET FOR 1"DIHEDRAL EACH TIP