THIS WHOLE MESS CAN BE EPOXIED TOGETHER FOR GREATER SECURITY

LID OF SCREW TOP JAR 1-1/4" DIA. (APPROX.) MAKES GOOD STARTING PULLEY (METAL LID, NOT PLASTIC)

DRILL 1/32" DIA. HOLES THRU NTO PROP DRIVE FITTING

FAN HUB

FORCE U SHAPED 1/32" DIA. STEEL WIRE THRU HOLES. POSITION IN SLOT OF PROP BOLT & FILL SLOT WITH SOLDER

1/4" THICK FIBER WASHER (MAYBE TWO 1/8" THICK WASHERS)

PROP BOLT (TIGHTEN SECURELY BEFORE DRILLING HOLES)

PROP WASHER

METHOD OF SECURING FAN TO SHAFT OF COX .15 IS SPECIAL (NOT TO SCALE)

FAN

CUT 6-1/8" DIA. CIRCLE FROM 3/32" ALUMINUM

MARK HUB 1-3/4" DIA.

MEASURE BLADE CENTER LINES 60 DEGREES APART

FILE SLOT FOR STARTER STRING

MARK BLADE OUTLINE 1" WIDE AT TIP 5/8" WIDE AT HUB

DRILL 1/4" DIA. HOLES MIDWAY BETWEEN BLADE ROOTS

CUT BLADE SIDES FROM TIPS TO ROOTS

FILE & BEND TO SECTION

DRILL HOLE FOR ENGINE PROP SHAFT

BALANCE ON TWO KNIFE EDGES AS FOR PROP

BEND BLADES TO APPROXIMATELY 25 DEGREE ANGLE AT TIPS

FINISH WITH SANDPAPER, STEEL WOOL & METAL POLISH

NOTE OVERLAP TO MEET FUSELAGE PLANKING

FIN

1/16" SHEET

1/4" SQ. SPARS

TOP SPAR BUTT JOINED TO TIP RIB

R1

R2

R3

R4

R5

R6

ALUMINUM CLIP

1/4" BALSA LEADING EDGE. TAPER FROM 9/16" AT ROOT END TO 3/8" AT TIP

1/16" PLY DOUBLER

BLIND NUT

HARDWOOD

PLY STRIP

3/32" STEEL WIRE

R6 1/8" BALSA

R5 1/16" BALSA

R4 1/16" BALSA

R3 1/16" BALSA

R2 1/16" BALSA

R1 3/32" BALSA

ALLOW OVERLAP AT EACH END OF RIB TO BEVEL TO MATCH LEADING AND TRAILING EDGES

1/16" STEP BETWEEN LOWER WING SHEETING & CRUTCH

LOWER INTAKE SCREEN

CUT SCREEN TO DOTTED LINE PATTERN & EPOXY INSIDE FRAME

CUT SCREEN FRAME FROM 1/32" PLY

UPPER SCREEN

POSITION THIS HOLE TO CLEAR GLOW PLUG

AFT FLOW STRAIGHTENER SECTION

FORWARD FLOW STRAIGHTENER SECTION

CUT SLOT IN END OF EACH SURFACE & GLUE STRIP OF 1/32" PLY THEREIN TO PREVENT SPLITTING

END OF TOP SHEETING. CUT PIECE OF 1/16" BALSA & GLUE TO TOP OF CRUTCH AFT OF THIS LINE

BUTT JOIN LOWER SHEET TO CRUTCH

ALUMINUM STRIP EPOXIED TO WING & FUSELAGE HOLDS ENGINE HATCH

UPPER SHEET CONTINUES TO SLIGHTLY OVERLAP R1

F7 RESTS ON TOP OF CRUTCH

3/8" SQ. ENGINE BEARERS (EPOXIED TO BOTTOM OF CRUTCH)

ENGINE & FAN AREA - PAINTED BLACK -

HOLE FOR PRESSURE LINE

SERVO RAIL (1/8" PLY)

F8

F7

F6

F5

F4

F3

F2

F1

FLOW STRAIGHTENERS

FAN AREA

ENGINE AREA

CUT OUT TO SUIT ENGINE

CUT HERE TO ALLOW BEND

CONE OUTLINE

DUCT EXIT

BEND FRONT FLOW STRAIGHTENERS FROM THIS LINE

DUCT WALL

RECESS TO THIS LINE FOR TOP SCREEN

DUCT INLET

HATCH

HOLE FOR FEED LINE (POSITION TO SUIT TYPE OF TANK)

RECESS LINE

COOLING AIR SCOOP

FUEL TANK AREA

C/G

AILERON SERVO

ELEVATOR SERVO

SERVO RAIL

RECEIVER & BATTERY COMPARTMENT HATCH

4-40 BLIND NUT

CUT TRIANGLE OF 1/4" BALSA TO JOIN SPARS

TRIANGLE OF BALSA JOINS LEADING EDGES

REFERENCE LINE

NOSE BLOCK CUT FROM BALSA & HOLLOWED

R1

R2

1/8" PLY CRUTCH OUTLINE

LANDING GEAR LEG

SECURE WITH METAL CLIPS & SMALL WOOD SCREWS

LOWER WING SHEET TO THIS LINE. R1 RESTS ON TOP OF SHEET

SERVO HATCH OUTLINE

ELEVATOR BELLCRANK

APPROXIMATE OUTLINE OF BOTTOM PLANK

APPROXIMATE OUTLINE FOR TOP PLANKING

1/4" x 1/2" STRIP OF HARDWOOD ALONG BOTTOM OF RECEIVER COMPARTMENT FOR FRONT L/G LEG

NOTE THAT TOP WING SHEET MUST OVERLAP R1 FAR ENOUGH TO MEET FUSELAGE PLANKING

HUB

25 DEGREES

BLADE TIP SECTION & ANGLE

WING TRAILING EDGE

CONTROL SURFACE

CONTROL HORN OUTLINE CUT HORN FROM FIBRE BOARD CUT SLOT IN WING & EPOXY HORN IN SLOT

SIDE VIEW OF PUSH ROD. SMALL BEND PERMITS ADJUSTMENT OF CONTROL SURFACE WITHOUT ADJUSTMENT AT SERVO

BELLCRANK MOUNT (1/8" PLY)

1/4" SQ. SPARS

R2

PUSH ROD

1/16" FILLER STRIP

R3

LEADING EDGE CUT FROM 1/4" BALSA - 9/16" TAPERING TO 3/8"

F1 TOP

F1 BOTTOM

F2 TOP

F2 BOTTOM

F3 TOP

F3 BOTTOM

F4 TOP

F4 BOTTOM

F5 & F6 TOP

F5 & F6 BOTTOM

SHORT LENGTHS OF HARDWOOD PIECES OF ENGINE MOUNT STOCK SERVE WELL

VISE JAWS

BLADE VERTICAL IN VISE

SUGGESTED METHOD OF BENDING FAN BLADE SECTION. POSITION EACH BLADE WITH PIECES OF WOOD AS SHOWN, CLOSE VISE UNTIL BLADE BENDS TO DESIRED SHAPE. THEN FILE TO SECTION.

ELEVATOR (1/8" BALSA)

TRAILING EDGE

ALL PUSH RODS 3/64" DIA. PIANO WIRE

BELLCRANK CUT FROM PLYWOOD OR FIBRE BOARD

AILERON BELLCRANK

R4

AILERON PUSH ROD

CONTROL HORN

PUSH ROD GUIDE

ATTACH PIVOT DIRECTLY TO RIB & CUT SLOT TO ALLOW CRANK TO SWING FREELY

AILERON (1/8" BALSA)

R5

REFERENCE LINE

TRIM END OF AILERON AS NECESSARY TO CLEAR FIN

FIN (1/8" BALSA)

CELLULOID CANOPY

RECEIVER COMPARTMENT HATCH

F5 TOP

F6 TOP

F4 TOP

F3 TOP

REFERENCE LINE

F1 TOP

F2 TOP

F3 BOTTOM

F1 BOTTOM

F2 BOTTOM

F4 BOTTOM

1/2" x 1/4" HARDWOOD

#4-40 BLIND NUT

F5 BOTTOM

F6 BOTTOM

1/8" PLY STRIP

SMALL WOOD SCREW

WOOD SCREW OR CATAPULT HOOK

LOOP WIRE TO FIT BOLT

FLAT HEAD 4-40 BOLT HOLDS FRONT GEAR

3/32" OR 1/8" STEEL WIRE L/G

PLANK AREA BELOW REFERENCE LINE AS FAR BACK AS F5 WITH 3/32" SOFT BALSA & REINFORCE WITH LIGHT FIBREGLASS. REST OF FUSELAGE PLANKED WITH 1/8" SOFT BALSA EXCEPT FOR REAR

TWO INCH WIDE STRIP OF FIBREGLASS ALONG BOTTOM FROM F5 TO REAR END OF DUCT

F7 TOP

CUT AS NECESSARY AFTER ASSEMBLY TO INSERT FUEL TANK

BEARER CUTOUTS

F7 BOTTOM

CUT OUT FOR COOLING AIR

F8 (TOP) (1/8" PLY)

F8 BOTTOM 1/8" BALSA

ALL BULKHEADS 3/32" BALSA EXCEPT F8 TOP (1/8" PLY) & F8 BOTTOM (1/8" BALSA)

GRAIN

FIN OUTLINE

REAR OF SCREEN IS HELD DOWN AUTOMATICALLY BY FAN SUCTION

WIRE CLIP INSERTED THRU SCOOP HOLDS FRONT OF SCREEN

1/32" PLYWOOD HATCH COVER

COOLING AIR SCOOP

CUT SLOT THRU THIS AREA & F8 TO DIRECT AIR ON TO CYLINDER HEAD

SCREEN RECESS LINE

ALUMINUM STRIP

1/16" BALSA FILLER

R6

AILERON

REFLEX ANGLE

SERVO COMPARTMENT HATCH

F7 TOP

F8 TOP

PLY CRUTCH

FIN HAS 1/16" PLY DOUBLER BELOW THIS LINE

EDGE OF SCREEN FRAME SLIPS DOWN BETWEEN ALUMINUM STRIP & RECESSED PLANKING

ENGINE BEARERS

C/G

F8 BOTTOM

F7 BOTTOM

FIBREGLASS INSECT SCREEN - EPOXY TO PLY FRAME

LOWER SCREEN PERMANENTLY GLUED IN PLACE

3/32" STEEL WIRE LANDING GEAR

1-3/4" THIN WHEELS

DIRECTION OF FAN ROTATION

CONE

DUCT WALL

1/16" BALSA FLOW STRAIGHTENERS (FRONT)

MOISTEN & BEND FRONT EDGE TO APPROXIMATELY 30 DEGREES INTO DIRECTION OF FAN ROTATION

FRONT VIEW OF DUCT INLET

REAR FLOW STRAIGHTENERS (1/16" BALSA)

CONE

DUCT WALL

REAR VIEW OF DUCT EXIT

R/C MODELER MAGAZINE

BANSHEE

DUCTED FAN DELTA

DESIGNED & DRAWN BY	C. W. PEAKE	INKED BY	GERARDO FLORES

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