

VERON

REPUBLIC 'THUNDERJET' 18" SPAN.

SCALE MODEL OF AMERICA'S FOREMOST JET FIGHTER FOR JETEX 50.

SPAN : 18". LENGTH : 14 1/2".
WEIGHT (WITHOUT MOTOR) 1 1/8 ozs.

STRIPS OF 1/16" SHEET 3/8" WIDE LAMINATED ROUND I.A.

LAMINATED RINGS OF SOFT 1/16" SANDED TO FORM NOSE RING.

DOUBLE KEEL STRINGERS.

JETEX 50 CLIP.

BALLAST COMPARTMENT MADE OF PAPER ROLLED ROUND PENCIL & CEMENTED. WHEN SET TRIM TO LENGTH, BLOCK ONE END WITH Balsa, USE SHOT & PLASTICINE FOR WEIGHT.

SKETCH SHOWING HOW WING STRUCTURE IS BUILT FLAT OVER THE PLAN WITH LEADING & TRAILING EDGES LAID FIRST WITH SLOTS IN TRAILING EDGE THEN RIBS & TOP SPAR.

ADD COCKPIT COVER AFTER COVERING WITH TISSUE.

BASE RIB R.1 IS TILTED FOR DIHEDRAL - USE CARD TEMPLATE ON RIGHT OF PLAN.

C.G. LINE.

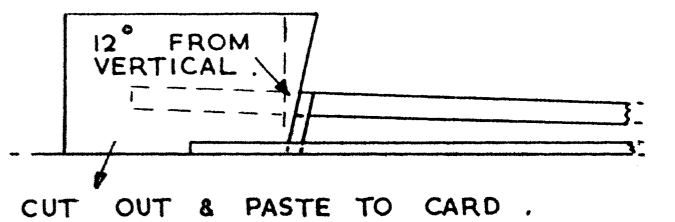
SPAR IS 1/8" x 1/16"

LEADING EDGE IS 1/16" x 3/16"

OUTLINE OF CARD TEMPLATE FOR DUCT.

TIP BLOCKS ARE 1/4" x 1/2" x 3/4" CEMENTED IN PLACE THEN CARVED & SANDED TO SHAPE.

SKETCH BELOW SHOWS HOW CARD TEMPLATE WITH 12° ANGLE IS USED TO CHECK ANGLE OF BASE RIB R.1 PERMITTING 1° DIHEDRAL.



CUT OUT & PASTE TO CARD.

WHEN ATTACHING JETEX CLIP TO BLOCK POSITION ACCURATELY AND PUNCH POSITION OF HOLES WITH A BRADAWL. FILL HOLES WITH CEMENT & DRIVE SCREWS HOME. REPEAT TILL FIBRES OF THE WOOD ARE FILLED WITH CEMENT. DO NOT FLY MODEL 'TILL SET ABSOLUTELY HARD.

SCREWS IN JETEX KIT.

PAINT BLACK.

SKETCH SHOWING HOW OMISSION OF T.4 & T.5, WHILST BUILDING PERMITS TAILPLANE TO BE SLIPPED THRU FIN & LOCATED ON S.2'S. CHECK FOR SQUARENESS, THEN ADD F.4, F.5, & COVER FIN.

OMIT TILL TAILPLANE IS LOCATED.

TRAILING EDGE 1/4" x 1/16" RIBS ARE SLOTTED IN 1/16".

LINE DENOTING BLACK TOP TO COAMING.

NOTE ANGLE OF RIB.

SPAR EXTENSIONS CEMENTED AGAINST FORMERS F.4, 5 & 7.

NOTE SLOT IN TAILPLANE.

COVERING. USE TISSUE CUT INTO PANELS STRETCHING FROM FORMER TO FORMER & FROM ONE SIDE KEEL TO THE OTHER, TOP & BOTTOM SEPARATELY WITH EDGES OVERLAPPING ABOUT 3/16". MAINPLANES ARE COVERED WITH TISSUE BOTH SIDES BEFORE CEMENTING IN PLACE. WHEN LOCATED & DRY, WITH FIN COVERED WATER SPRAY THE WHOLE MODEL, THEN DOPE ALL MODEL INCLUDING TAILPLANE. GIVE FUSELAGE AN EXTRA COAT. BALANCING. WITH UNCHARGED MOTOR IN PLACE, ADD SHOT TO BALLAST TUBE & SECURE WITH PLASTICINE. ADD OR DETRACT SHOT TILL GLIDE IS CORRECT WITH NO TENDENCY TO STALL OR TURN. THEN ADD CHARGE.

SAND LEADING & TRAILING EDGES OF BOTH FIN & TAILPLANE TO REASONABLE STREAMLINE WITHOUT WEAKENING THE STRUCTURE.

COLOUR SCHEME

NATURAL ALUMINIUM FINISH WITH BLACK TOP DECKING FROM NOSE TO FIN AT COCKPIT LEVEL. NOSE RING IS RED. ALSO, HORIZONTAL FIN FLASH & WING TIPS. LETTERS ON FUSELAGE ARE BLACK & SAME ON UPPER SURFACE OF STARBOARD WING - SEE DETAILS ON BOX ILLUSTRATION.

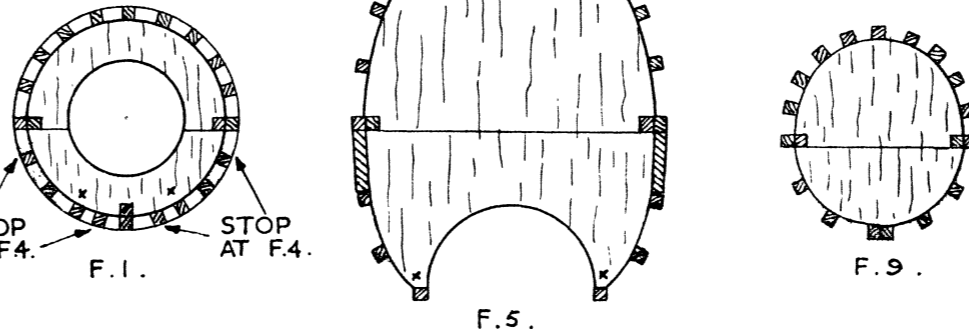
RING OF GUMMED PAPER TAPE. TAILPLANE IS 1/16" SHEET.

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CONSTRUCTION STAGE 1.

LAY WAXED TISSUE OVER TOP ELEVATION OF PLAN, LAMINATE TWO LENGTHS OF 1/16" x 1/16" FOR EACH SIDE LONGERON & PIN IN PLACE.

DOUBLE LAMINATION FORMS BASIC WARP PROOF KEEL FOR ERECTION OF HALF FORMERS, PLACE PINS EITHER SIDE OF STRINGERS - NOT THRU THEM. CUT OUT ALL FORMERS AND DIVIDE EACH ONE HORIZONTALLY THRU ITS CENTRE LINE.



CROSS-SECTIONAL STATIONS SHOWING STRINGER POSITIONS.

CONSTRUCTION STAGE 2.

UPPER HALVES OF ALL FORMERS ADDED & CEMENTED UPRIGHT TO LAMINATED KEEL.

FIN TRAILING EDGE SET UPRIGHT AGAINST FORMER F.11. THEN TOP MID-STRINGER ADDED FROM F.1 TO F.11. THEN FIN L-EDGE WITH T.6. & JOINED AT TOP BY T.3. CHECK FOR VERTICAL ADD REMAINING 1/16" x 1/16" STRINGERS - 4 EACH SIDE (- SEE SECTIONS ON PLAN) FROM NOSE TO F.11.

CONSTRUCTION STAGE 3.

WHEN SET QUITE DRY, REMOVE FROM BOARD & ADD LOWER HALVES OF ALL FORMERS. CHECK THAT EACH IS UPRIGHT. ADD LAMINATED KEEL OF 2 - 1/16" x 1/16" FROM F.1 TO F.4. ADD 3/16" BLOCK BETWEEN F.4 & F.5. ADD S.1's.

ADD SINGLE KEEL STRINGER FROM F.9 TO F.11. THEN ALL REMAINING STRINGERS. NOTE THAT THOSE MARKED 'X' ON FORMERS RUN FROM F.1 TO REAR CONVERGING AT F.9. TO FORM EDGE OF DUCT FOR 'JETEX' SECURE STRINGERS WITH RUBBER BANDS WHILST DRYING.

CONSTRUCTION STAGE 4.

ADD REMAINING STRINGERS FROM NOSE TO REAR. ALL STRINGERS EXCEPT KEEL MEMBERS STOP AT F.11. MAKE A ROLL OF GUMMED PAPER TAPE 5/8" DIAM & WHEN DRY CUT SLOT 3/8" DEEP, 1/16" WIDE -

- & SLIP OVER KEEL EXTENSIONS WITH T.1. IN SLOT. SEE DETAILS ELSEWHERE ON PLAN FOR THE LAMINATED NOSE RING FITTING OVER RING I.A. WHEN SET SAND TO A STREAMLINE AS PER FUSELAGE SIDE ASPECT. CUT THIN CARD OR CARTRIDGE PAPER FORM FROM DRAWING IN WING PANEL & CEMENT IN GROOVES FROM FORMERS F.5. TO F.9. FOR JET DUCT.

CONSTRUCTION STAGE 5.

SHOWING ASPECT OF FINISHED FUSELAGE & TAIL. NOTE HOW COVERING IS APPLIED IN BAYS WITH OVERLAPPING JOINTS.

SHOWING HOW WINGS ARE OFFERED UP TO FUSELAGE (AFTER COVERING) WITH SPAR EXTENSIONS THRU SLOTS IN S.1. & AGAINST F.4, F.5 & F.7. COVER FIN & ADD COCKPIT COVER AFTER DOPING.

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