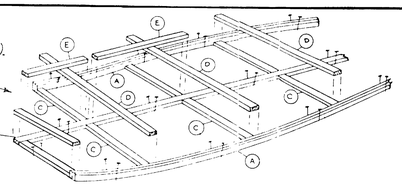
The 'MARTINET'

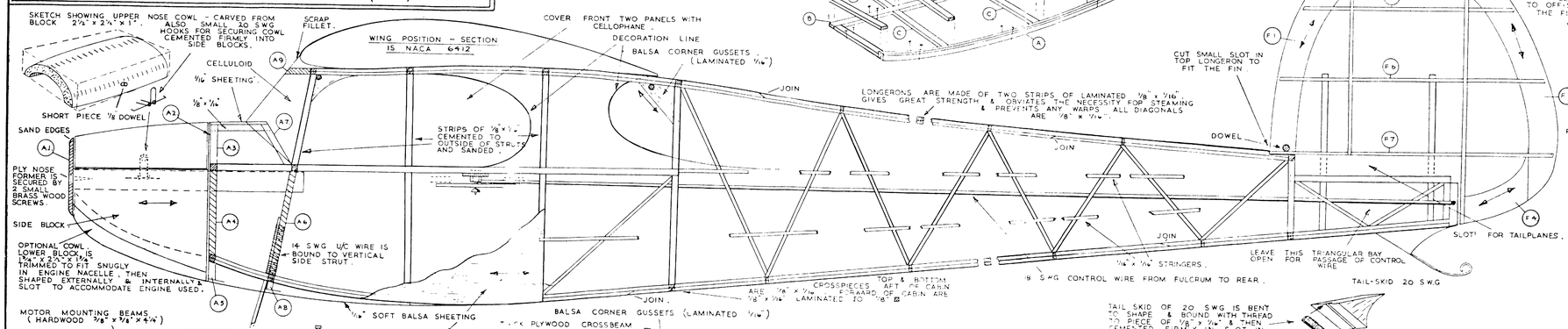
COMBINED FREE-FLIGHT & CONTROL-LINE POWER MODEL.

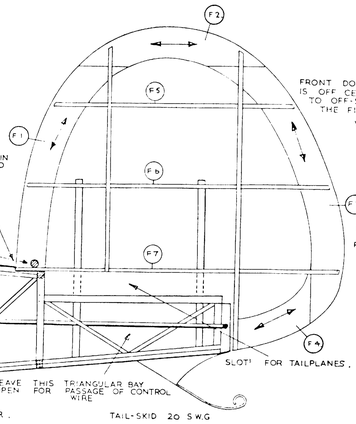
FOR SMALL PETROL OR DIESEL MOTORS UNDER 1 c.c. CAPACITY.

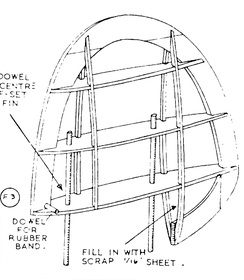
36" SPAN : LENGTH O.A. 28½" : WEIGHT (BARE) 7½ ozs.

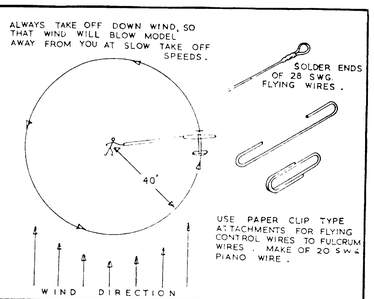
PERSPECTIVE SKETCH SHOWING PROGRESSIVE ASSEMBLY OF FUSELAGE SIDES USING ONLY ⅛" x ½" BALSA STRIP. TWO LONGERONS ARE LAID FIRST (LAMINATED ⅛" x ⅛") Ⓐ IN PLACE BEFORE CEMENT SETS. MIDDLE LENGTH ⅛ x ½" NEXT Ⓑ. HALF-LENGTHS OF VERTICAL SIDES NEXT Ⓒ. FULL LENGTH SIDE STRUTS CEMENTED NEXT Ⓓ. LASTLY - STRIPS Ⓔ ETC.
NOTE: WHEN BUILDING OPPOSITE SIDE, THE VERTICALS ARE LAID IN REVERSE PROCEDURE.











BUILDING & FLYING INSTRUCTIONS.

READ CAREFULLY ALL THESE AND OTHER PLAN INSTRUCTIONS & FAMILIARISE YOURSELF WITH THE PLAN & PARTS BEFORE COMMENCING CONSTRUCTION.
COVER THE PLAN WITH WAXED TISSUE WHERE REQUIRED. BUILD FUSELAGE SIDES FIRST AND FOLLOW PROCEDURE ILLUSTRATED AT TOP OF PLAN. ASSEMBLY OF SECOND SIDE IS MADE IN REVERSE SO THAT CENTRE NOSE LONGERON HAS FULL LENGTH ⅛" x ⅛" TO THE OUTSIDE. JOIN TWO FUSELAGE SIDES WITH CROSSPIECES OF LAMINATED ⅛" x ⅛" TO FORM ⅛" Ⓑ. COMMENCE AT CABIN. WORKING TOWARDS NOSE. USE PINS THRU' LONGERONS AS TEMPORARY METHOD OF JOINING. CHECK FOR ALIGNMENT & SQUARENESS. DRAW IN SIDES TOGETHER AT REAR END & CEMENT FINALLY. CUT REMAINDER OF ⅛" x ⅛" CROSS PIECES CHECKING LENGTHS FROM PLAN & FIT 20 SWG IN THEIR APPROX LOCATIONS. BEND 14 SWG WIRE TO SHAPE FOR U/C & BIND WITH THREAD & CEMENT TO UPRIGHTS AS SHOWN. FIT FORMERS A4, A5 & A6 CHECKING THAT ⅜" x ¾" x ¼" HOLES ARE CLOSE FIT ON MOTOR BEAMS & THAT THEY ARE CORRECT DISTANCE APART FOR ENGINE TO BE USED. CEMENT PLY FORMER A2 FIRMLY TO FRONT & THEN LOCATE MOTOR BEAMS AND CEMENT FIRMLY. ADD ⅛" FORMERS A3 & A5 AS WELL AS A7, A8 & A9. CEMENT IN PLACE THE SIDE SHEETING, ALSO OVER TOP OF A3 & A7. ALSO UNDERNEATH NOSE ON A5 & A6. CUT NOSE FORMER A1 WITH FRETSAW FROM BLOCK PLY & SCREW IN CORRECT LOCATION USING SMALL BRASS ½" WOOD SCREWS. ADD NOSE FAIRING BLOCKS WHICH CARVE AND SAND NICELY TO CONTOUR AS REQUIRED. SEE SKETCHES. PLAN SHOWS BLOCKS SHAPED FOR ENGINE IN INVERTED POSITION. FIT REMAINING GUSSETS IN FUSELAGE CABIN, CELLOPHANE ⅛" SHEET BALSA GUSSETS (9) IN TAIL-BAY & ⅛" x ¼" SIDE STRINGERS. ALSO WIRE TAIL SKID & WHEELS WING FIXING DOWELS. ASSEMBLE FULCRUM UNIT (SEE SKETCH BELOW THESE INSTRUCTIONS) & CEMENT FIRMLY ACROSS INTERIOR OF CABIN.

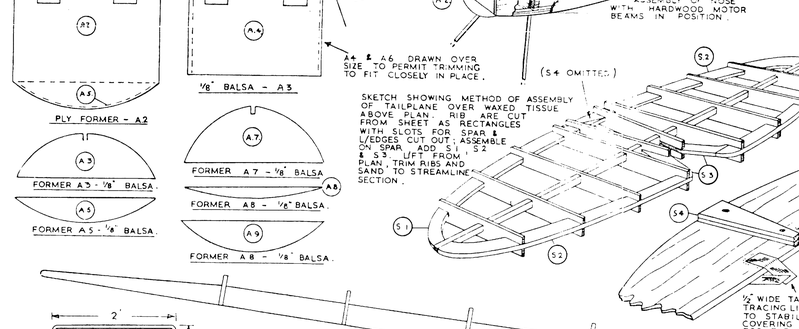
WINGS

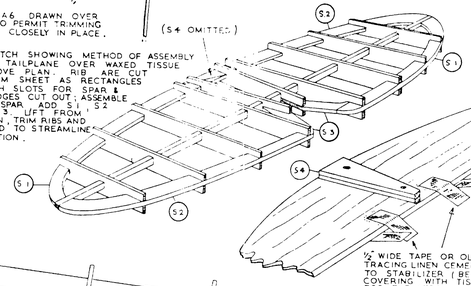
CUT OUT ALL RIBS WITH SLOTS FOR SPAR & NOTCH FOR L/EDGE. CUT MAINSPARS FROM ½" x ¼" PROVIDED, TAPERING TO ⅜" x ⅛" AT RIB R8 & TO ⅛" x ⅛" AT TIP. LAY TWO HALVES OVER PLAN FORM OF DIHEDRAL & TRIM TO BUTT JOIN ACCURATELY AT CENTRE. CEMENT FIRMLY THE ½" x ¼" x 3" GUSSET IN PLACE WHEN SET ERECT SPAR OVER PLAN COMMENCING WITH STARBOARD SIDE FIRST. ADD TIP PIECE WT2 TO END OF T/E LENGTH OF ⅛" x ⅛" WORK OUT EXACT LENGTHS & SLOTS ON THIS WHERE REAR ENDS OF RIBS ARE SLOTTED INTO T/EDGE THEN PIN IN PLACE ON PLAN & ERECT RIBS R1 TO R8 IN THEIR RESPECTIVE POSITIONS ON SPAR & CEMENT FIRMLY. SLIDE INTO T/EDGE. ADD LEADING EDGE ⅜" x ¾" & WT1. WHEN ALL JOINTS ARE SET HARD, REMOVE & ERECT PORT SIDE OF SPAR OVER PLAN & BUILD IN IDENTICAL MANNER ADD CENTRE SECTION L/EDGE & T/EDGE. ALSO THE ⅛" SHEETING WITH GRAIN CROSSWISE TO BIND IN PLACE LENGTHS OF TUBING TO RIB R6 & SPAR AS SHOWN. BEND TO SHAPE 20 SWG WIRE GUIDE & SOLDER THE JOINT & CHECK FOR FIT & POSITION A RUBBER BAND SECURES THE GUIDE WHILST CONTROL FLYING.

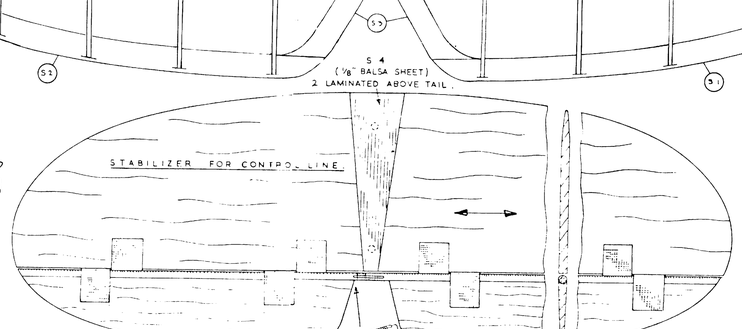
STABILIZER (FREE FLIGHT).

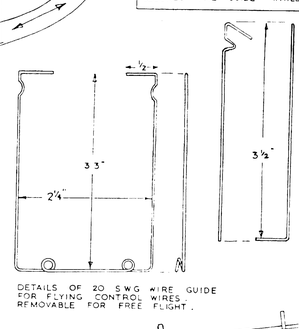
PERSPECTIVE SKETCH SHOWS METHOD OF BUILDING UP FREE-FLIGHT STABILIZER RIBS. ARE CUT FROM PRINTED SHEET AS RECTANGLES WITH SLOTS FOR SPARS L & T/EDGES CUT OUT. SET UP ON TAPERED SPAR ALL THE RIBS ERECT OVER PLAN. JOIN SIDE PIECES S3 & S2 TO FORM ONE LEADING EDGE PIECE & CEMENT IN POSITION. TRIM REAR ENDS OF S2 AS REQUIRED & FIT ALSO PIECES S3. WHEN SET TRIM & SAND RIBS TO SECTION. COVER & ADD S4 STABILIZER. (CONTROL LINE).
TRIM EDGE OF ⅛" SHAPED ⅛" BALSA SHEET STABILIZER & SAND TO STREAMLINE SHAPE AFTER CEMENTING IN PLACE TWO LAMINATED PIECES S4. (THESE ARE MADE FROM TWO ½" x ¼" HALVES TO ⅛" Ø DOWEL & FIT 20 SWG CONTROL ARM AS SEE SKETCHES). ATTACH THE ELEVATORS TO TAIL WITH 6 TAPE HINGES. COVER THE WHOLE WITH TISSUE & DOPE.
FIN.
CEMENT OUTLINE PIECES F1, F2, F5 & F4 TOGETHER OVER PLAN WHEN SET CEMENT RIBS IN POSITION & FOUR VERTICAL ⅛" x ⅛" SPARS. DRILL HOLES FOR ⅛" Ø DOWEL WHICH CEMENT IN POSITION. CHECK THEY ARE IN ALIGNMENT WITH HOLES MARKED IN BOTH STABILIZERS (S4) & STERNBAY. ERECT FIN & STABILIZER & THEN BEND ENDS OF LENGTH OF 16 SWG WIRE TO FIT IN HOLES IN BOTH FULCRUM AND IN THE STABILIZER CONTROL WIRE WHEN BOTH ARE NEUTRAL POSITION OF THIS WIRE THROUGH STERN BAY HOLD IT CORRECTLY AND CEMENT CONNECTED TO ELEVATOR IN FLIGHT.
COVERING. COVER ENTIRE MODEL WITH ONE LAYER OF WHITE TISSUE. APPLY TWO OR THREE COATS OF DOPE. DOPE ENTRY AROUND WOODEN PARTS OF NOSE TO PREVENT ON SOAKAGE.
ENGINE.
THE DIESEL ENGINE MAY BE FITTED UPRIGHT OR INVERTED AS DESIRED BUT IS BEST SECURED BY SMALL WOOD SCREWS.
FLYING (CONTROL LINE).
THE SETTINGS DRAWN IN THE DESKN ARE AS FOR CONTROL LINE. CHECK THE BALANCE ACCURATELY & ADJUST WITH BALLAST IF FOUND TO BE NECESSARY. SLIGHT NOSE DOWN WHEN SUPPORTED UNDER MAINSPAR. C/G MAY BE PLACED FURTHER FORWARD BY ADDITION OF LEAD OR A COARSER PITCH PROPELLER. USE 40 FOOT RADIUS LINES OF EITHER 28 SWG PIANO WIRE OR FISHING LINE (CUTTYHUNK).
FLYING (FREE FLIGHT).
IT WILL BE FOUND NECESSARY TO PACK ⅛" UP LEADING EDGE OF THE WING APPROX FOR FREE FLIGHT. USE FINE PITCH PROP. 18 SWG CONTROL WIRE IS REMOVED FOR FREE FLIGHT AS THE WIRE JOINS INTO T/EDGE. THE WING CHECK VERY THOROUGHLY. THE GLIDE BEFORE ANY POWERED FLIGHT. ONCE THE GLIDE SETTINGS ARE ASSESSED. ADJUST THE FINAL LINE SETTING ONLY BY PACKING THE ENGINE LUGS WITH WASHERS. THE MODEL SHOULD FLY IN LARGE 200 FOOT CIRCLES TO THE RIGHT WITH DECREASING DIAMETER CIRCLES ON THE GLIDE.

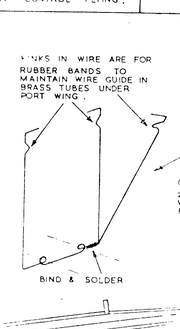
→ INDICATES GRAIN.

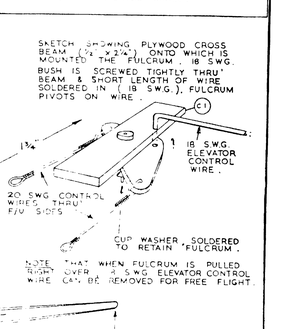


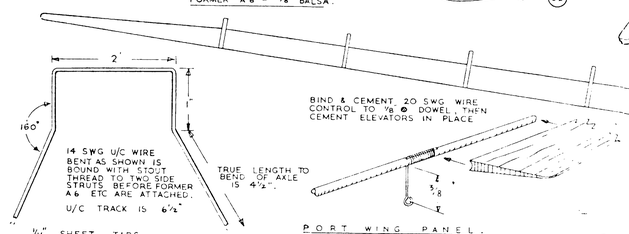


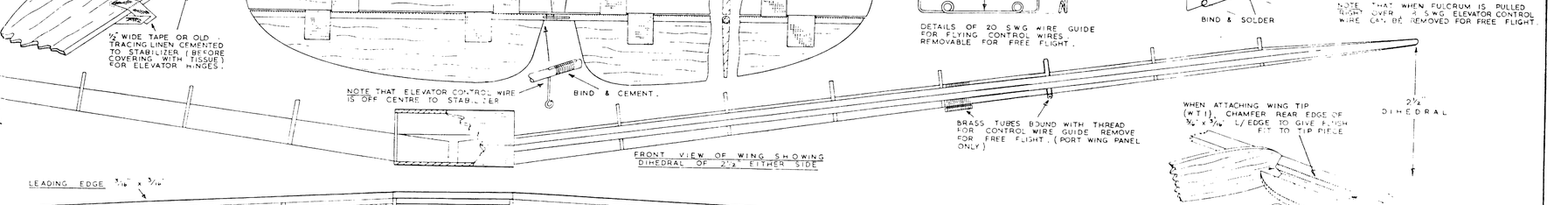












ALTERNATIVE METHOD

WING IS BUILT IN TWO HALVES EACH WITH ¼" EXTENSION OF MAINSPAR AT CENTRE. WHEN TWO HALVES ARE COMPLETE CHAMFER UNDER EDGE OF TWO EXTENSIONS SO THEY ARE FLAT WITH BUILDING BOARD WHEN TIPS ARE SUPPORTED ON BLOCKS TO GIVE 2½" DIHEDRAL BOTH SIDES. ADD CENTRE SECTION ⅛" GUSSET & BOTH LEADING & TRAILING EDGES THEN SHEET C/SECTION TOP & BOTTOM.

PROVIDED & MANUFACTURED BY MODEL AIRCRAFT (BOURNEMOUTH) LTD. NORWOOD PLACE, BOURNEMOUTH.
A VERON KIT.