Aurora
Kit No. 121

ATIONS

_____	1400 mm.
_____	230 mm.
_____	.328 sq.m.
IE AREA _____	052 sq.m.
GE LENGTH _____	760 mm.

INSTRUCTIONS

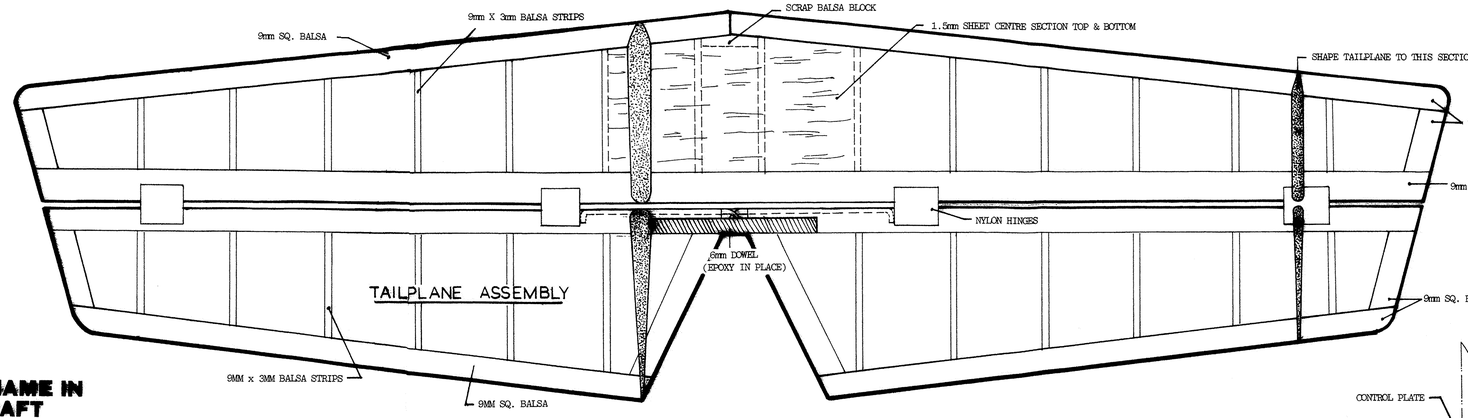
READ INSTRUCTIONS FULLY BEFORE STARTING ASSEMBLY.
Three Glue types are mentioned throughout these instructions, - epoxy (any one of the 5 minute varieties available), white glue (PVA woodworking glue), and normal balsa cements. Where not otherwise specified, use C17 cement for normal airframe use, and C23 for high stress joint areas.

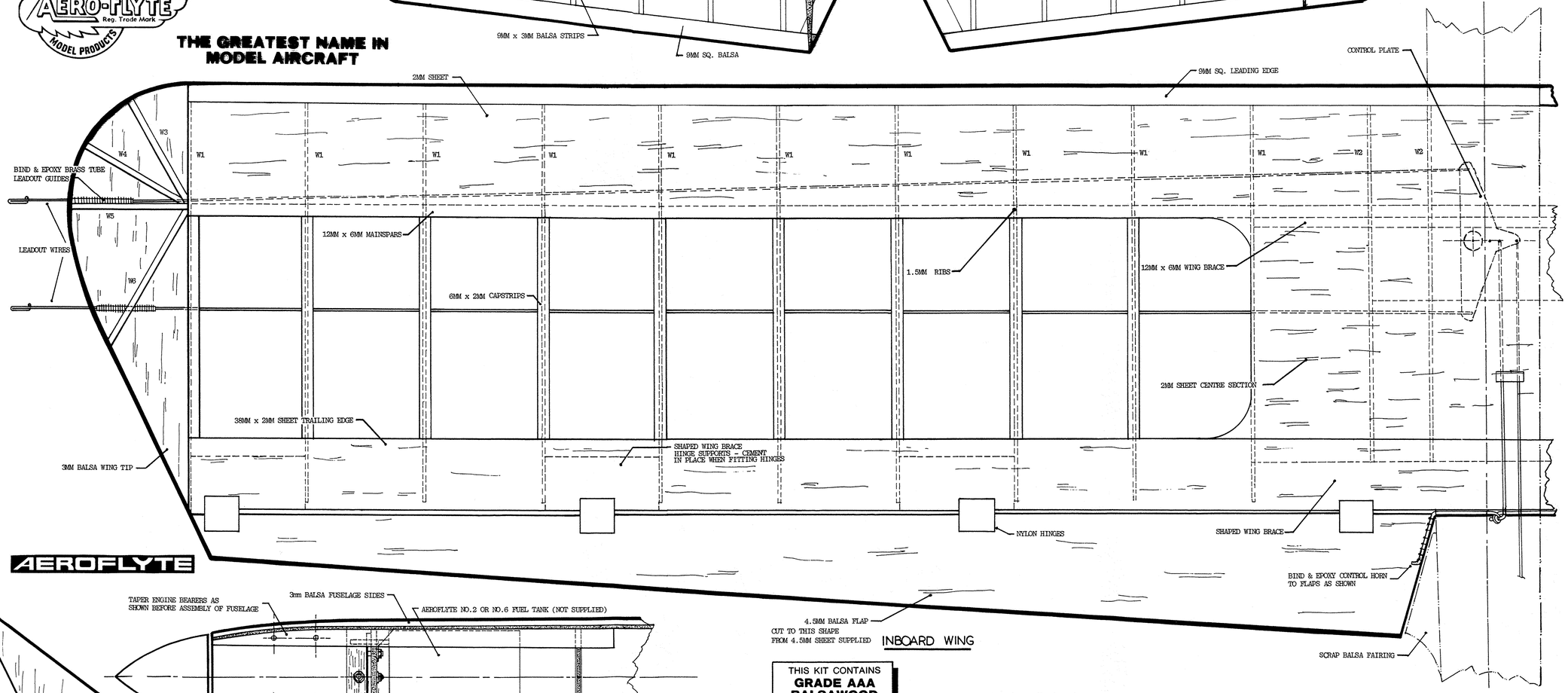
FUSELAGE ASSEMBLY:-
1. Fit the performed nose gear to former 1 as shown in the detail, clamping with the J Bolts supplied. Taper the front of the engine bearers as shown, and white glue F1 and F2 in position on the bearers (location is shown on the fuselage side view). Ensure formers are square and parallel when fully dry, fit the motor in position so that the prop drive washer just clears the front of the bearers, and mark and drill for your choice of engine mounting bolts. Blind mounting bolts are preferred, or epoxy nuts to the top of the bearers (these are inaccessable later, so fix securely). Remove motor for later fitting.
2. White glue the 1.5mm doubler sheets provided at the front of the fuselage sides (cross grain), making a left and right hand side. When dry, cut the doubler to the wing cut outs, and white glue the sides to the bearer assembly, ensuring correct line up and squareness at all times. Do not fit any other formers to the fuselage yet - the rear of the fuselage sides are left unglued at this stage. When dry epoxy the gussetts at rear of F1 and fit and epoxy and AeroFlyte No.2 or No.6 tank into position, allowing clearance for the J Bolt nuts and the gussetts, and making sure the filler pipes point to the inboard wing side. The feed pipe goes through F1 into the motor compartment.
Leave fuselage assembly at this stage and build the wing.

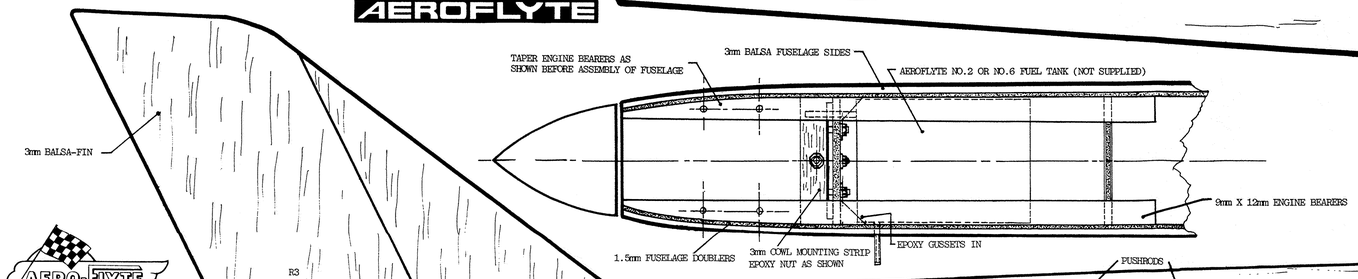
TAILPLANE ASSEMBLY:-
1. Make up the tailplane as shown, fit but do not cement the hinges. Build the elevators, and join as shown, making sure the joining dowel and the control horn are securely epoxied into place, then fit the hinges to the elevators. Sand the assembly to the shape shown and if using Solarfilm cover at this stage. Cement hinges in place.
2. Fit this assembly in position on the fuselage, and with the controls set at neutral bend the pushrod at right angles to fit the wire horn. Solder a retaining washer in place, ensuring elevators are level at neutral.

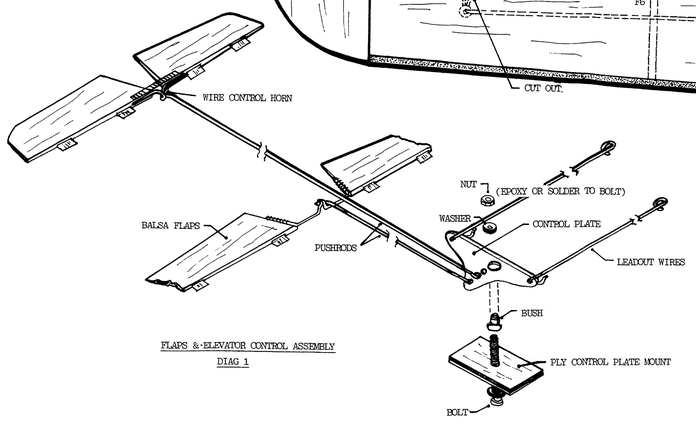
FINAL ASSEMBLY:-
1. Check the entire control system for free movement and correct operation (flaps move in opposite direction to elevators), and when satisfied, fit the top block and cement in place. Fit the bottom sheeting,ply U/C mount plate (notch fuselage sides) and make up and fit the fin, then white glue in place.
2. Fit the motor and muffler in position and shape the cowl block to suit. Mount the cowl block either as shown or your own alternative method. Ensure a slot is cut in the base to allow clearances for the nose leg. Fit and white glue the tank compartment floor in place, and fit the formed undercart with clamps provided, either screwing or bolting in place then removing.
3. If painting, sand entire model , tissue cover, and redope. A final light sand will prepare the model for undercoating.
If using Solarfilm, the assembly method will be modified to suit the best time to cover e.g. the fuselage may best be covered before fitting wings etc, but this can be preplanned accordingly.
4. When finished painting or covering, cut and epoxy the canopy in place, finally fit the motor and fuel line, undercart and wheels (use soldered washers or wheel collars), cowl, spinner if desired, and either bend the leadouts as shown or fit fishing line couplings. Check the balance of the model at the centre of gravity, and adjust if incorrect to within 10mm of the C. of G.
5. If this is your first flight with this size controline model, we suggest the help of an experienced flier is and advantage.

THE GREATEST NAME IN MODEL AIRCRAFT



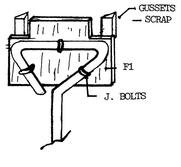






FLAPS & ELEVATOR CONTROL ASSEMBLY
DIAG 1

THIS KIT CONTAINS **GRADE AAA BALSAWOOD** EXCLUSIVE TO AERO-FLYTE



FUSELAGE ASSEMBLY

AEROFLYTE

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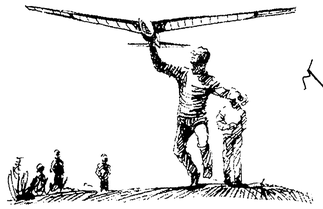
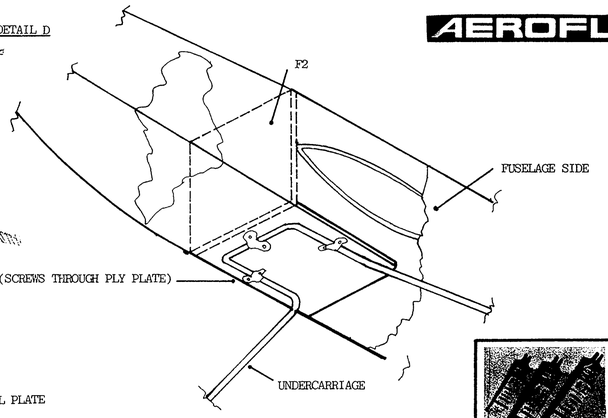
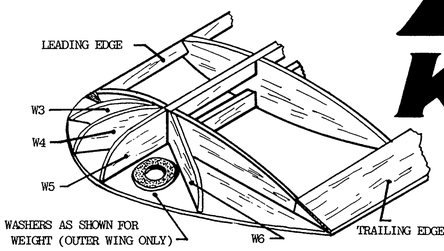
AEROFLYTE

DETAIL D







GLUE TWO WASHERS AS SHOWN FOR WING TIP WEIGHT (OUTER WING ONLY)

WING ASSEMBLY:-

1. Build the inboard wing over the plan by pinning the bottom mainspar in place, removing the lead out cutouts from the appropriate ribs and glueing the ribs to the mainspar in the correct location. Pin the leading edge, bottom trailing edge and top mainspar in place and cement all joints. Add the top trailing edge sheet and cement in place. Trim the centre joint of the wing so that mainspars, leading & trailing edges are all in line.
2. Next build outboard wing over the plan, using the ribs with no cutouts. (NOTE:- You will have extra ribs unused, follow the plan accurately for rib usage). This wing is built in the same manner as the inboard wing.
3. When dry, join the two wing halves using the braces supplied (white glue this joint) and fit the control plate mount and trailing edge brace at the same time. Cement in position, and when dry, fit the control plate and leadout wires as shown in the assembly sketch. Pushrods will be fitted later. Ensure the leadout wires are free to move, and the controls operate smoothly
4. Fit the leading edge sheeting, wing tips, weight washer, brass leadoutguides (bind & cement or epoxy) to inboard wing, cap strips, and bottom wing centre sheeting. Do not fit top wing centre sheeting at this stage. Fit flaps with nylon hinges supplied, but do not cement hinges at this stage. Mark the wing centre joint.

WING AND FUSELAGE ASSEMBLY:-

NOTE:- If using Solarfilm, flaps and wing should be covered before final fitting to fuselage.

1. Remove one flap and slide the wing into the fuselage opening ensure that the inboard wing is on the left hand side looking at the top of the model. Now fit the pushrods into position, lining up with the control horns for flaps, and elevators. When the pushrods are fitted securely to the control plate, slide the wing left as far as possible, cut a slot in the top sheeting for the pushrods, and cement the left top wing centre sheeting in place. Reverse the procedure and cement the right top sheeting in place, with the pushrods running between the fuselage sides. Locate the wing in the centre of the fuselage (note the outboard wing is shorter) and white glue squarely in place.
2. Set controls at neutral, mount the flaps, and fit the flap control horn as shown,(ensure flaps are parallel). Fit to the pushrod, solder a retaining washer in place and white glue the hinges in place, washing off excess glue with water.
3. Complete centre and rear of fuselage by cementing formers F3 to F6 in place, and cutting out the semicircle for clearance to the elevator joiner.

OUTBOARD WING

THE WING IS THE MOST IMPORTANT PART OF YOUR MODEL — AN EFFICIENT WING MAKES AN EFFICIENT MODEL. BUILD NEATLY AND ACCURATELY.

THIS KIT CONTAINS **GRADE AAA BALSAWOOD**

Hisat Planes H.E

THE GREATEST NAME IN MODEL KITS

AERO-FLYTE Reg. Trade Mark MODEL PRODUCTS

DESIGNED AND MANUFACTURED BY AERO-FLYTE PRODUCTS PTY. LTD., PANORAMA, ADELAIDE, SOUTH AUSTRALIA