Turncoat basic structure shows "flat" section ribs for ease of building on a board, sheeted L.E. for strength and triple tailplane booms.

"Moggs" Morris poses below with one of several Turncoats outside our offices. Northwood M.A.C. will be more active in combat soon.

MOST of "Turncoat's" features may be quite familiar to those aeromodellers who build and compete in the combat class of control line. They should be! as "Turncoat" has been developed from such designs as *Razor Blade '64*, *September Warrior*, *Dominator*, and *Early Bird* all established A.P.S. favourites

Taking all the best features from each of these models, a fast, manoeuvrable and virtually indestructible model has evolved. In the right hands it will prove to be a winner in the 1967 season. Having already won the South Midland Area Gala at Cranfield in prototype condition, flown by Mike Delaney of Northwood.

Construction

Commence construction by glueing together the trailing edge which consists of $\frac{1}{2}$ in. x $\frac{1}{4}$ in. hard balsa strip $\frac{1}{4}$ in. x $\frac{1}{16}$ in. spruce and soft $\frac{1}{4}$ in. sheet, pin down to board and glue. Glue laminated tips together

TRY THIS FOR CONTEST WINS

25cc Flying Wing Combat Model

The Latest in the Flying Wing Trend by Combat Exponent M.J. "Moggs" Morris

29" Wingspan

TURNCOAT

Wing tip detail shows outer tip, lead counterbalance weight buried in sheeting to prevent it coming out in a crash landing.

1/16 plywood tailplane booms should have hinge wire holes drilled together to get them aligned. Note stitching round hinge wire.

from soft $\frac{3}{32}$ in. sheet, cross the grains and remember to insert brass lead out tubes into inboard tip. Make a $\frac{1}{16}$ in. plywood rib template and cut ribs from medium close grained $\frac{1}{16}$ in. balsa sheet and one centre $\frac{1}{4}$ in. sheet rib, making holes for controls in the inboard ribs. Pin 1 in. square hard balsa leading edge to building board and cement all ribs to it except the centre rib. After sanding trailing edge to shape, slot and glue to ribs on board. Shape the $\frac{1}{2}$ in. x $\frac{1}{2}$ in. beech engine bearers, add spacer, glue and screw together. Remove framework from the building board and cement engine bearers over leading edge, add centre rib then allow to dry.

Cut out developed tank shape from tin plate and solder up with air vents and fuel feed pipes. Fix tank in position using Araldite, riblet W4 and $\frac{1}{4}$ in. sheet fillet. Cement on $\frac{1}{16}$ in. bottom sheeting, and glue on laminated tips, adding $\frac{1}{2}$ oz. of lead weight to outboard tip.

Bind and solder Bowden cable extensions to 20 s.w.g. wire leadouts, solder to bellcrank, add 16 s.w.g.

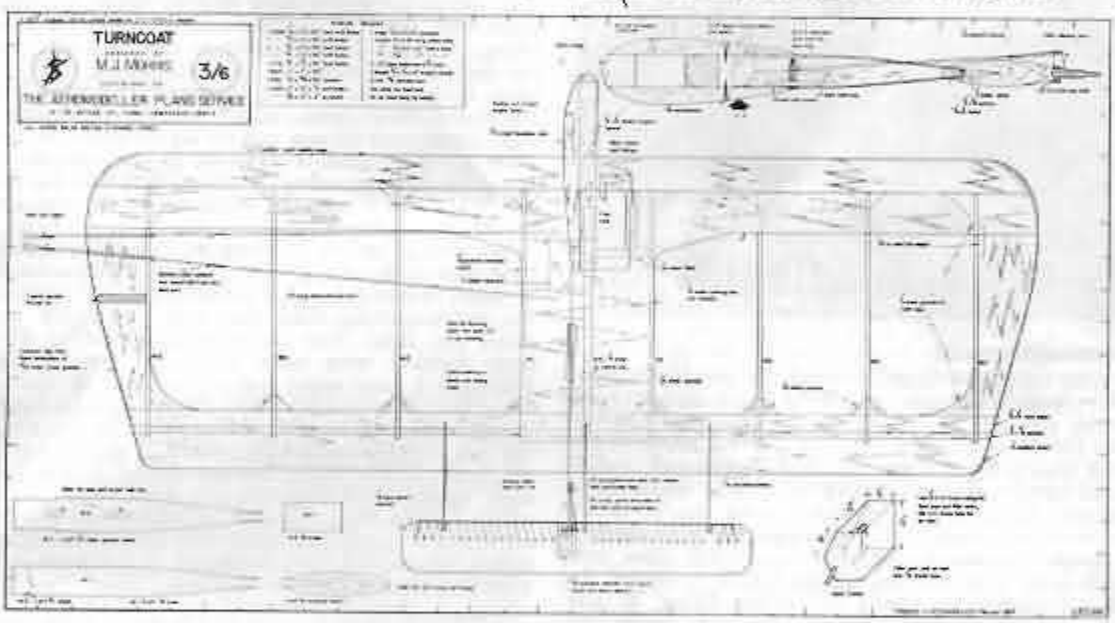
pushrod, bolting unit to ¼ in. plywood bellcrank mount, then glue into position.

Add ¼ in. sheet and ¼ in. sheet gussets, also cement top 1/16 in. sheeting in place. Double cement ¼ in. soft balsa sheet fuselage sides and nose block to engine bearers. Carve and sand fuselage to streamline shape. Drill engine mounting bolt holes. Round off leading edge and sand the framework smooth. Bind and solder loops on the end of lead out wires. Either bandage or fibre glass the engine pod wing joint area. Dope framework with one coat of clear dope, cover in nylon and apply three coats of dope. Cut 1/16 in. plywood booms, drill holes for the 20 s.w.g. wire hinge then cut ¼ in. hard sheet elevator. Slide booms on to the hinge wire, bend to shape and sew it on with carpet thread and cement well.

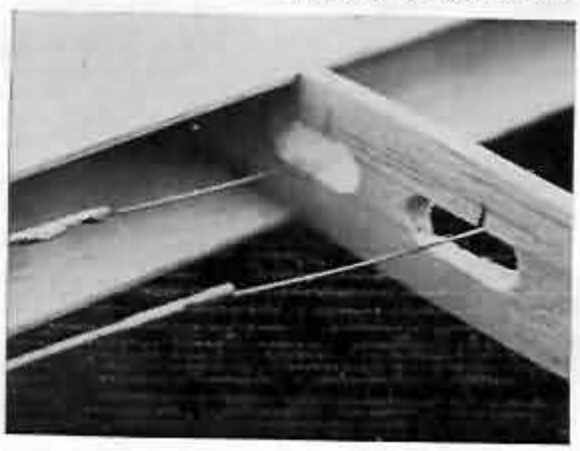
Cover elevator with nylon, add 1/16 in. plywood elevator horn mounts and elevator horn. Double cement booms to model and fuel proof. Connect up control system. Bolt in your 2.5 c.c.—3.5 c.c. engine/silencer unit and "Turncoat" is finished.

The engine bearers should be well blocked-in with balsa and made as tight a fit as possible around crankcase, fill grain cement and fuel proof well, to prevent cracks and fuel seepage.

To make "Turncoat" fly fast, build light but strong Aim for around 15 ozs. all-up weight, taking great care in choosing the right wood for the job.



FULL SIZE COPIES OF THIS 1/6th SCALE REPRODUCTION ARE AVAILABLE FROM AEROMODELLER PLANS SERVICE, PRICE 3/6d. PLUS 6d. POST. QUOTE PLAN CL 926 WHEN ORDERING.



Bind and solder Bowden cable to piano wire leadouts very securely, then pull test them before you fly. Note large clearance holes for wires.