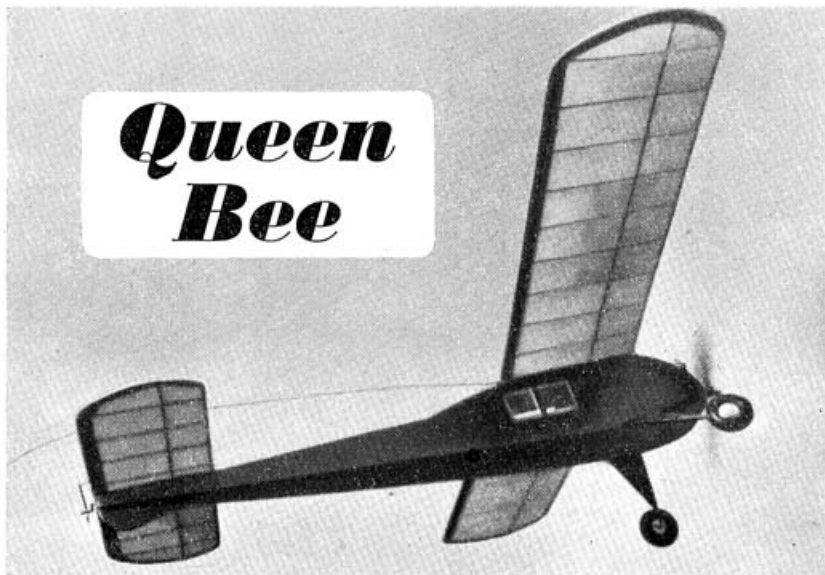


Queen Bee



A 48 in. RADIO CONTROL
MODEL

BY P · GRIMWADE

Age 18 years . . . a commercial artist . . .
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and Stunt Control Line . . . no other hobby
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THE Queen Bee was designed for the E.D. Bee and built around the Dews Radio Unit, so that the average builder can build a cheap but efficient R/C model. Two of these models were built to give it a thorough testing, and the weight of each one came to about 1 lb. 10 ozs.

Fuselage. The two fuselage sides are built flat on the plan in the usual way, the top longerons being cut off just behind F.4. While the sides are drying, cut out the formers F.1 to F.5. When the sides are dry remove from plan and glue formers F.1-F.4, and engine bearers in place. The rear ends of the bottom longerons can now be cemented together and F.5 fixed in place, after which the lower spacers can be added. The next thing to do is to pack up the front of the fuselage, and add the top longeron and the two struts which form the "V". When the longeron is dry, the uprights can be added. The tail platform can now be cemented in place, the blocks added at the front and the whole platform sanded to shape. U/C blocks should now be added, together with cowling and all other sheeting as shown on plan. When dry the whole fuselage can be sanded lightly and the cowling shaped.

Wings and Tailplane. The wings and tailplane are built flat on the plan in the usual way, and call for no comment except at centre section of wings (see sketch).

Fin. Usual construction, but for rudder which is hinged by means of 18 s.w.g. wire bound to rudder and let into 18 s.w.g. brass tubing at top and bottom of fin. Cement fin to tailpiece.

Undercarriage. This is constructed from 14 s.w.g piano wire and a $\frac{1}{8}$ in. balsa fairing.

Covering. Original models were bamboo tissue covered, the wings and tail unit being yellow, and the fuselage and rudder black.

Doping Fuselage. Two coats of clear dope. Two coats of banana oil.

Doping Wings. Two coats of clear dope.

Tail Surfaces. One coat of clear dope.

Flying. Check up balance to see that the C.G. is in correct place, as shown on plan, and check wing and tailplane alignment and incidence, wings 3°, tailplane 0°. Check glide once or twice and then switch on batteries and test for movement. For first flight give an engine run of 20-30 secs. Only give a few signals for the first few flights and then increase engine run and signals accordingly. The tank used was the one supplied with engine and gives a run of approx. 4 mins. Keep all couplings and movements as free and as simple as possible.

Radio Installation. The installation of receiver, relay and actuator can be clearly seen from diagrams.

The relay and actuator used were the ones manufactured by E.C.C.

