

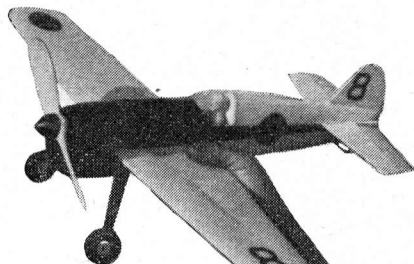
# BLACK CHIFFON

CLASS "A"  
TEAM RACER  
FOR 2.5 c.c.

BY

C. M. MILFORD

Aged 25 . . . Member St. Albans Club . . . Mechanical Engineer at De Havilland Engine Company . . . Married . . . keen on scale free-flight, small power duration models for .5 c.c. . . also interested in sailing and motor-cycling.



NOW that Class A team racing has thoroughly established itself as an even more popular item than Class B, we can easily deduct from performance of winning machines, that the 2.5 c.c. diesel is best, and that it is more usual for an inverted engine to receive the chequered flag first. Black Chiffon, named for the attire of its curvaceous occupant, comes within the specification for a winning Class A model, and since it has been developed through a series of five machines, one may well undertake construction with every confidence.

**Construction.** Start with the wing by cutting out the lower surface template from butt-joined 1/32 in. Pin over plan, cement lower spar, ribs and T.E. in that sequence, chamfer L.E. and cement on. Score at centre line and prop up starboard side to 1 1/4 in. dihedral. Make up bellcrank with push rod and lead-outs, assemble between ply mounts and add root ribs against these, with lead-outs through ribs, and all movement checked free. Add L.E. bridge piece, top spar, and upper surface of port wing. Un-pin and

add top of starboard side and the centre section top, allowing a roomy slot for push rod. After adding tips, sand whole to correct section.

Lash finished u/c to bulkhead, cement to bearers, also F.2. Add wing mounts, fill sides with 3/32 in., shape top block above bearers and steam sheet for tank department lid. Assemble F.4, 5 and 6, on to 1/4 in. squares, mark former positions inside the sides, pre-cement with Britfix, steam sides, join together at tail with wedge piece and cement over formers. Add backbone, sand to shape. Tail parts are as normal.

Now attach front fuselage to wing, adding scraps to fill, add rear fuselage, threading push rod through and making sure of a good junction with both wing and front fuse; then add tail parts and soft balsa fairings. Build the air outlet under wing, add bottom skin, cockpit floor, pilot and canopy.

Fit engine in place, fit 1/4 in. sides and front cowl block, add steamed 1/16 in. bottom, and shape before cutting away level with rear of engine. Clean up inside and fuel proof, fit tank and intake block, tissue cover over all. For radial engines, the cowl is best cemented in place, otherwise elastic bands can be used to hold the lower cowl, and a tight fit retains the tank lid.

The prototype was tastefully decorated with black fuselage and flesh pink surfaces—with some very tasty lace work around the wing roots, such as befits the choice name, we leave you to your own ideas for colouring of your model.



*Lazy Lizzie, at left was a slightly larger and much earlier version of Black Chiffon. Note fin numbers, Chiffon in heading is No. 8, plan is of No. 9.*

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DESIGNED BY

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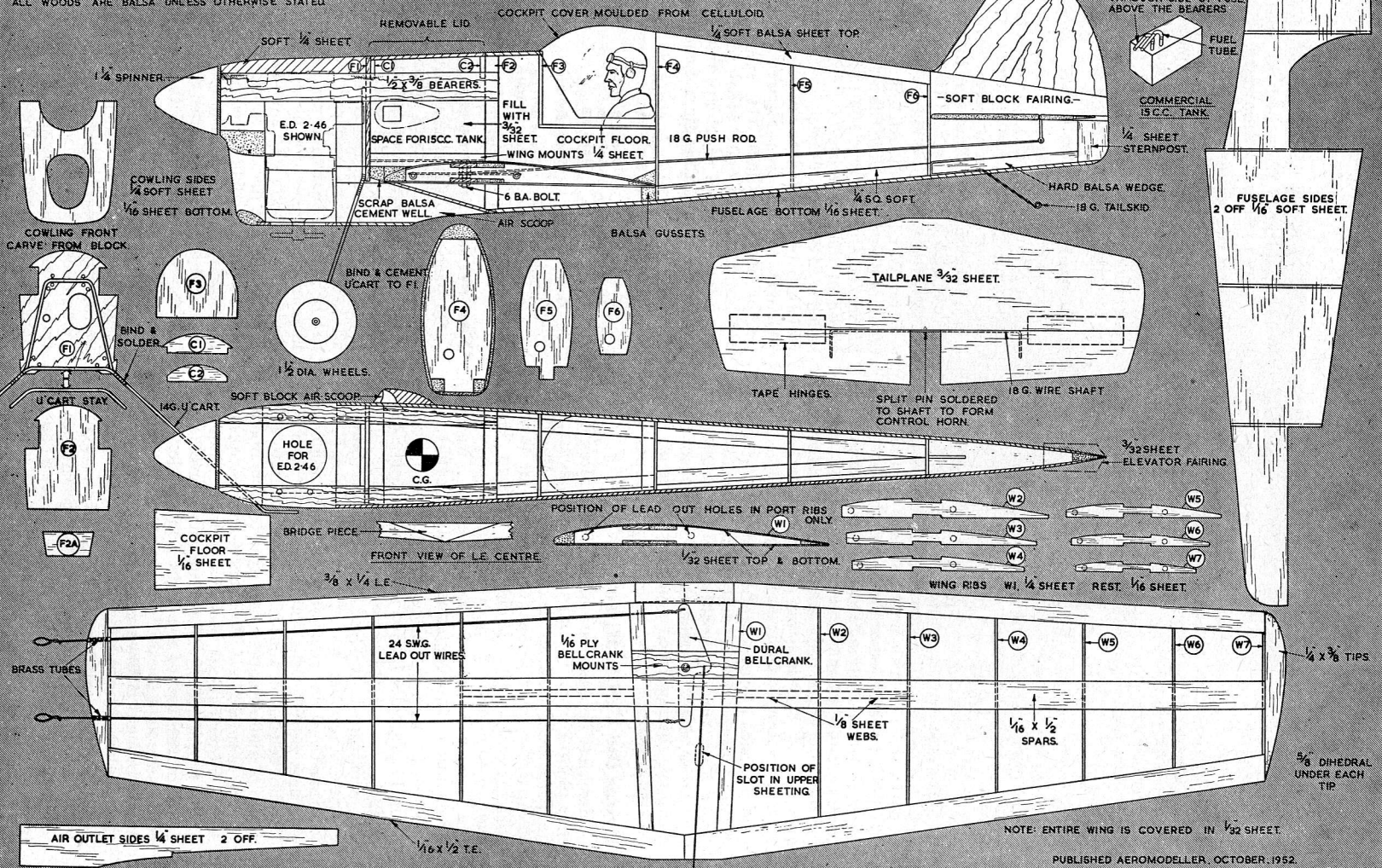
THE AEROMODELLER PLANS SERVICE

38 CLARENDON RD. WATFORD, HERTS.

ALL WOODS ARE Balsa UNLESS OTHERWISE STATED.

| MATERIALS REQUIRED         |                                      |
|----------------------------|--------------------------------------|
| STRIP Balsa 3' LONG.       | 20" OF 18 SW.G. WIRE.                |
| 1 STRIP OF 1/4 X 1/4 SOFT. | 26" - 24"                            |
| 1 - 1/4 X 3/8 HARD.        | PIECE OF PLY 1/32 X 3 1/2 X 2 1/2    |
| SHEET Balsa 3' LONG.       | - - - 1/16 X 1/2 X 4"                |
| 2 SHEETS OF 1/32 X 3' MED. | - - - 3/32 X 2 X 2 1/2               |
| 2 - 1/16 X 3'              | 1/2 X 3/8 BEARERS 10 1/4 LONG.       |
| 1 - 3/32 X 3' HARD.        | 2 BELLCRANK.                         |
| 1 - 1/4 X 3' SOFT.         | PAIR OF 1 1/2 DIA. WHEELS.           |
| MISCELLANEOUS.             | SMALL BLOCK OF Balsa 1/4 X 2 X 2 1/2 |
| 18" OF 14 SW.G. WIRE.      | SMALL PIECE OF CELLULOID.            |

| DATA.     |              |
|-----------|--------------|
| SPAN      | 22 IN.       |
| WING AREA | 86 SQ. IN.   |
| TAIL AREA | 19           |
| LENGTH    | 17 1/2       |
| WEIGHT    | 13 OZS.      |
| POWER     | 1-5-2.5 C.C. |



NOTE: ENTIRE WING IS COVERED IN 1/32 SHEET.

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