

P.S.S.

F86 SABRE.

P.R.O.
PLAN



**Build Ron Collins' fighter
from our free plans**

Quick and simple to build, our semi-scale Sabre is just right for an introduction to Power Scale Soaring.

ONE of the most beautiful jet fighters ever built, the Sabre has long been my favourite power scale soarer. No other model has given me so much pleasure. Build one and you'll love no other. Honestly! Here's the quick way low...

1 Bulkheads

1.1 Cut the four bulkheads from templates shown on sections A-A; B-B; D-D and G-G.

1.2 These may be made from plywood only or fabricated from balsa sandwiched with thin ply or veneer on one side only.

2 Fuselage

2.1 Cut both 3/16in balsa sides to the outline as shown on the elevation view shown by the black triangle.

2.3 Bond together the balsa sides and the ply doublers using an impact adhesive such as Evo-Stik or Dunlop Powerfix. Ensure that there is one right hand and one left hand side.

2.4 Affix balsa triangular section to both sides and allow to set.

2.5 Saw cut triangular section in the nose area to assist flexing of sides to meet nose block.

2.6 Glue bulkheads at B-B and D-D to both sides. When set, glue bulkheads A-A and G-G to both sides.

2.7 glue 1/2in thick balsa top decks and 1/4in and 1/2in thick bottoms.

2.8 Add nose block and tail faring.

2.9 Plane, then sandpaper to shape.

2.10 Fix wing mounting bracket but do not drill holes yet.

3 Fin and Tailplane

3.1 Carve and sand to shape the fin and tailplanes.

3.2 Fit fin to fuselage by cutting a slot on the centre-line at the location shown. Glue in place.

3.3 Tailplane may be made as an all-moving removable type as shown on plan or as a fixed type. Both versions fly well.

3.4 Tailplane lies at an angle of 10 degrees to fuselage.

4 Wing

4.1 Wings on all existing Sabres were made from polystyrene foam using the Eppler 374 templates on the plan. It could be constructed using traditional balsa and sheet covered.

4.2 Glue both sides of wing together using Araldite or similar. Strengthen wing joint together with a bandage coated with PVA glue.

4.3 Note wing dihedral of one inch under each wing tip.

4.4 Offer the completed wing to the fuselage and drill the wing retaining bolt holes right through the wing and the wing bolt bracket.

5 Finishing

Finish the Sabre with your favourite method. Models have flown using Solartex, Solarfilm and tissue and paint. For colour schemes refer to F-86 in colour by Larry Davis, Squadron/Signal Publications or F-86 in Action by the same author. For the ambitious why not try the Sabre markings of the Jagdeschwader 71 with its tulip nose markings.

6 Radio

The radio equipment location is shown

on the plan. However, it should be understood that the centre of gravity is the most important consideration. Move the battery to obtain the desired balance.

7 Flying

The best part! Set all flying controls to a 1/4in each way to begin with. Increase aileron later as you become more confident. Good luck!

Materials

You will need:

- 1 sheet - 1/2in x 4in wide x 36in long balsa
 - 2 sheets - 1/4in x 4in wide x 36in long balsa
 - 2 sheets - 3/16in x 4in wide x 36in long balsa
 - 2 sheets - 1/32in x 4in wide x 36in long ply
 - 4 lengths - 1 x 1 x 36in triangle section balsa
 - 1 - Micromold canopy No E/V2 (or similar)
 - 1 - Micromold Bellcrank No 63 (or similar)
 - 1 - set aileron horns
- Adhesives.

