

Assemble the fuselage over the plan upside down, laying the fuselage top deck on the board and gluing the fuselage sides to it. Use right angle to true up the sides and clamps to hold them against the formers. While this assembly is drying, construction can be taken a stage further by adding the fuselage underside sheet, grain across the fuselage for strength. At the nose, filling blocks are then added and finally the ply floor.

When all glue has set, remove the assembly from the building board and add the remaining filler blocks at the front of the fuselage top deck. The fuselage is now structurally complete, and the next job is to shape it to the sections shown on the plan, first drawing the side view outline on to the balsa and shaping to this line. The

fuselage is then rounded off, preferably using an electric drill and sanding disc, then finally hand sanded to finish.

Wing

The wing is best built in one piece using two perfectly true building boards set to the correct dihedral angle. It can be built in two separate halves and eventually joined using the dihedral brace, but the one piece method is to be preferred.

Prepare two sets of wing ribs using the 'sandwich method' as shown on the plan, cutting rib blanks, assembling as a block and carve and sand to shape using the root and tip templates. Next, make up the mainspars using medium hard wood, with the spar doublers in the centre.

Pin the two lower mainspars on the board and then position the wing ribs. Align the ribs using a purpose cut jig sheet placed under the ribs just ahead of the leading edge. Cement all ribs and then add the leading and trailing edge spars. The jig pieces incidentally are cut in half span lengths and cut to shape, but transferring the board-to-rib rises at root and



Pictures here taken at 1969 World R/C Champs. in Bremen show the elegant lines of Super Star. Wolfgang Matt placed 6th, a final position repeating his 1967 performance in Corsica. Quite a coincidence! At left is the complete Liechtenstein contingent, pilot Wolfgang Matt; far left, brother Gunther the mechanic in centre and team manager Wieland Meier at right.

tip to the jig sheet and cutting the jig sheet to shape along the line joining the rise points. This correctly aligns the ribs and compensates for the wing taper.

Add the top ply spar braces and, when the structure is dry, begin to add the top surface sheeting. The plan shows a partially sheeted wing structure with cap strips to the ribs where sheeting is not shown. For those who prefer it, however, the wing can be fully sheeted.

When all top surface sheeting is complete, leave the structure to dry thoroughly. The next step is to remove the structure from the building board and add the remaining ply centre section braces. Then add the front centre rib strengtheners around the wing locating dowel.

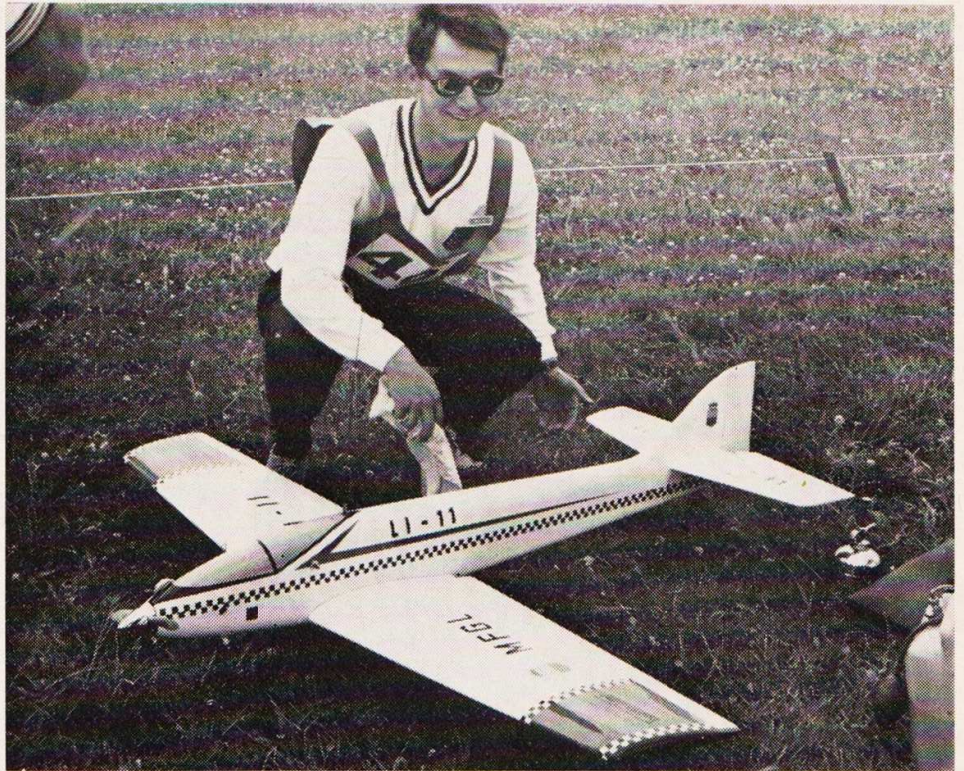
Finally, complete the undersurface sheeting, add the wing tip blocks and sand to a final shape.

Tailplane

The structure shown for the Super Star tailplane is one that has been popular for many years, and little comment on construction is required, except perhaps to add that an alternative method would be to use a foam core arrangement.

Finish

Finishing a model is a subject in itself, and every modeller has his own personal technique. I would only advise an initial covering of the fuselage framework with tissue or silk to harden off the surface.



A few words about test flying

First, and most important, ensure that any model balances correctly. Switch on your radio and check that all control surfaces centre correctly and that the strip ailerons have equal throw.

The most important part of trimming concerns loops and outside loops. In the case of the inside loop, if there is a tendency for one wing to drop, the wing should be balanced, with weight in the lighter tip.

Screwing out of outside loops is corrected with engine thrust line adjustments, usually about 1.5 degrees one side or the other to compensate.

That's about it as far as Super Star goes. It's a good machine and you should have fun with it. Build more than one!

