



KIT NO.109
RYAN ST
FLYING SCALE MODEL
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1 CUT OUT EACH PART CAREFULLY FROM THE PRINTED SHEET WITH A PEN KNIFE... USE A NEW BLADE... IT BLADE BURNS VERY WELL. WITH ALL MOVES CAREFULLY. PUT ALL PARTS ASIDE, READY TO USE. YOUR HOBBY DEALER HAS CEMENT FOR RALSAL AND CLEAR DOPE FOR TISSUE.

2 PUT WAXPAPER OVER THE FUSELAGE SIDE VIEW BELOW AND BUILD TWO SIDES OVER THE SHADDED FRONT. WHEN THE FIRST IS DRY, BUILD THE OTHER OVER IT TO MATCH. USE A STRAIGHT BUILDING BOARD, SOFT ENOUGH TO STICK PINS INTO... AS MANY AS YOU NEED TO HOLD THE TYPEWORK IN PLACE.

3 CEMENT FORMERS F2 & F9 BETWEEN FUSELAGE SIDES. WHEN WOOD BARS TOGETHER WITH A PIN, TEMPORARILY, AS SHOWN, ADD FORMERS F4, F13 & F6. WHEN DRY, REMOVE PIN AND INSTALL REMAINING FORMERS. GLUE ALL TOP AND BOTTOM STRINGERS IN PAIRS, TAPPING IF NECESSARY AT REAR TO FIT AGAINST F17.

4 CEMENT PARTS H1 TO H16 TOGETHER TO FORM NOSE COWLING AND REMOVABLE PLUG. SEE PLAN FOR NOTES. AS WRAP-AROUND COME PARTS ARE GLUED INTO PLACE, ALLOW DRYING TIME BEFORE TRIMMING AND SANDING. AFTER STRINGERS ARE INSTALLED, STOP OVER TAIL FAIRING UNIT (F23 TO F25) TO FUSELAGE. SANDPAPER ENTIRE ASSEMBLY WITH 6/0 SANDPAPER.

5 PUT WAXPAPER OVER WING LAYOUT AND USE PINS TO HOLD LEADING EDGES, TRAILING EDGES AND SPARS IN PLACE. CEMENT WING TIPS W1, W2, W3 & W4 FIRST. CEMENT WING TIPS W5, W6, W7 & W8 LAST. ALSO GLUE SANDPAPER AWAY ALL THE GLUE LUMPS OR THEY'LL SHOW THROUGH THE COVERING. TRIM AND SAND LANDING GEAR AND WHEEL PARTS TOGETHER.

6 REMOVE THE FINISHED WING PANELS FROM THE BOARD AND CAREFULLY SANDPAPER THE LEADING AND TRAILING EDGES TO SHAPES SHOWN AT RIGHT. WING PANELS, ALSO LIGHTLY SANDPAPER AWAY ALL THE GLUE LUMPS OR THEY'LL SHOW THROUGH THE COVERING. TRIM AND SAND LANDING GEAR AND WHEEL PARTS AS SHOWN BELOW.

7 PIN LEFT WING PANEL DOWN ON F14 SURFACE AND GLUE RIGHT WING PANEL TO IT, USING THE DIHEDRAL GAUGE STRIP UNDER THE RIGHT WING TIP TO OBTAIN CORRECT DIHEDRAL ANGLE. BE SURE TO COAT THE JOINTS BEFORE GLUING. GIVE THE WING JOINTS A SECOND COAT OF GLUE AFTER THE FIRST IS DRY.

8 SANDPAPER THIN SHEET RALSAL IN KIT LIGHTLY WITH 6/0 SANDPAPER. CUT OR TRACE THE RUDDER AND STABILIZER EDGES FROM THE PLAN AND ONTO THE RALSAL. CUT OUT RALSAL STABILIZER AND RUDDER AND ROUND OFF OUTSIDE EDGES. PAINT WITH LIGHTLY COLORED DOPE OR COVER WITH PROPER COLORS OF TISSUE. USE ONE COAT OF CLEAR DOPE IF LEFT FACTORY.

9 BRUSH THE FUSELAGE AND WING FRAMES WITH A COAT OF CLEAR DOPE TO FILL THE WOOD PORES AND MAKE THE COVERING STAGE MOVE BETTER. RUN TISSUE FIBERS LENGTHWISE WITH PART BEING COVERED. WORK A FEW INCHES AT A TIME. LIFT THE LOOSE TISSUE... DOPE A FEW INCHES MORE AND ATTACH IT.

10 COVER THE STRINGER AREA IN SEPARATE STRIPS. THE TRIMMED OFF EDGE REBOUNDS THE JOINING EDGE OF THE NEXT STRIP. DRAW THE TISSUE UP SMOOTHLY OVER THE FRAMEWORK. IF YOU DON'T, IT MAY WRINKLE.

11 COVER THE WING IN THE SAME WAY... FIBERS LENGTHWISE ALWAYS. COVER THE TOP SIDE FIRST. ATTACHING THE TISSUE TO THE CENTER RIB AND WORKING TOWARD THE TIP. OVERLAP THE TISSUE ALONG THE EDGES. COVER THE WING BOTTOM LAST. ALWAYS DRAW UP TISSUE SMOOTHLY AS YOU PROCEED WITH THE COVERING.

12 LIGHTLY SPRAY THE COVERED WINGS AND FUSELAGE WITH WATER TO SHRINK THE TISSUE. TIGHTLY OVER THE FRAMEWORK. AFTER THE WATER DRIES OFF, GIVE THE TISSUE ONE COAT OF THINNED OUT CLEAR DOPE. COLOR DOPE NOSE COWL, WHEEL PARTS AND HEADREST WING COLOR.