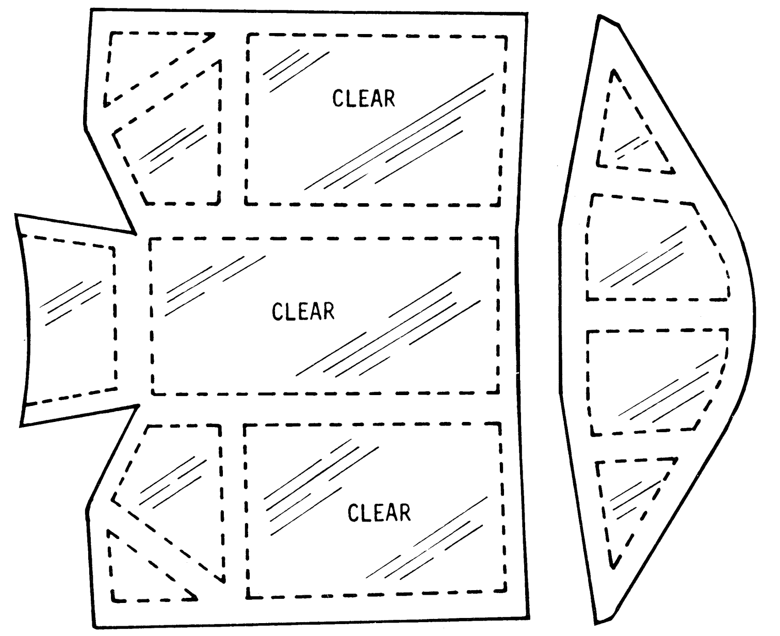


FIG. B

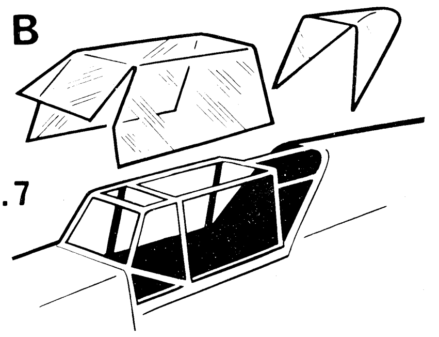


Fig.7

STEP 6.
Glue instrument panel to former D. Cut canopy pieces from acetate using Fig. B as a guide. Paint areas not marked clear to indicate canopy metal. Set aside to dry and glue in place after fuselage has been covered with tissue. (Fig. 7)

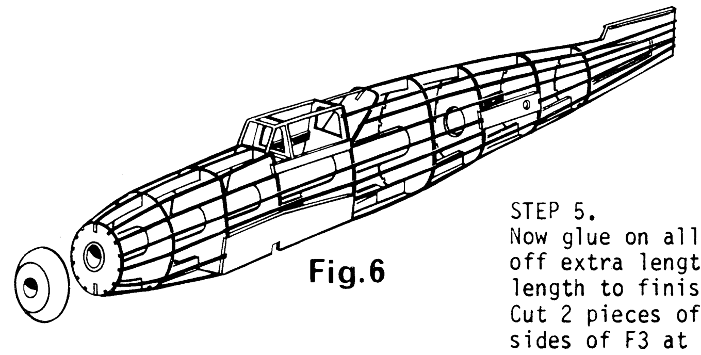


Fig.6

STEP 5.
Now glue on all stringers as in Fig. 6, cut off extra length. Cut stringer material to length to finish canopy framework, (Fig. A). Cut 2 pieces of stringer (R) to fit on both sides of F3 at tail (Fig. A).

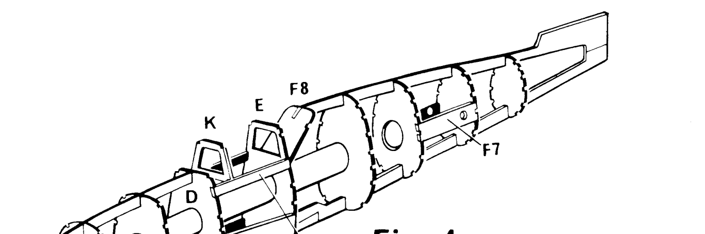


Fig. 4

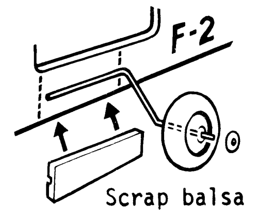


Fig. 5

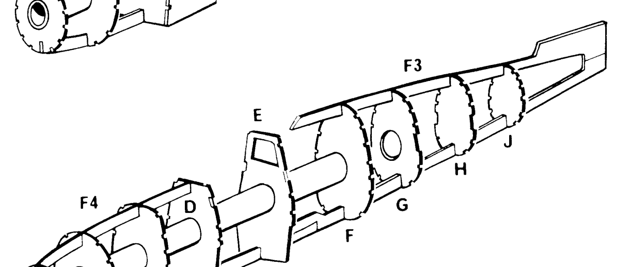
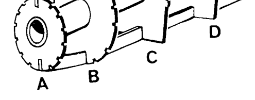


Fig. 3



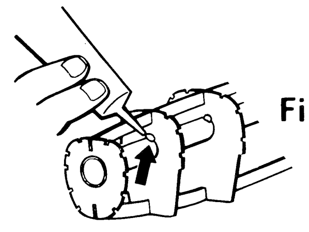


Fig. 2

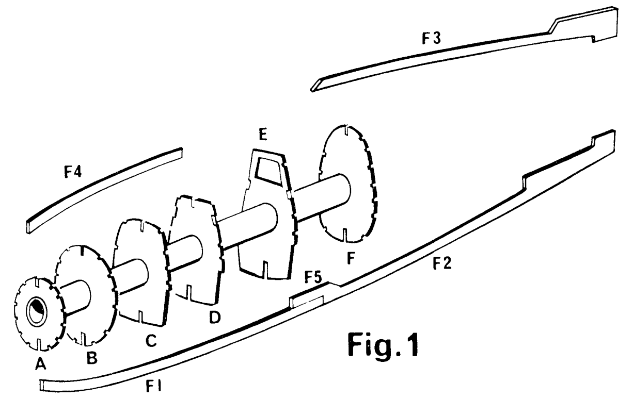


Fig.1

STEP 4.
To assemble tail wheel, bend wire as indicated in Fig. 5. Glue in place by sandwiching wire between F2 and a piece of scrap balsa. Use a sequin and a drop of glue to hold wheel on.

STEP 3.
Glue on pieces F5, F6, F7 on both sides of fuselage (Fig. 4). Glue K in place to F5. Glue F8 in place behind former E.

STEP 2.
Insert fuselage guides F1, F2 & F4 into slots on formers, align properly and glue in place (Fig. 3). Note tube ends at F, slip formers G,H & J on to F2, slide F3 into top slots of F,G,H & J and glue in place. If rear of fuselage appears to curve to the left or right this must be straightened when stringers are glued on.

STEP 1.
Carefully punchout all die-cut formers, and slide A,B,C,D,E & F on to tube as shown in Fig. 1. Use side view of plan (Fig. A) for exact positioning of pieces. Spot glue as shown in Fig. 2. While glue is drying glue F1 to F2 over plan (Fig. A).
NOTE: Lay wax paper over plan first so pieces do not stick to paper.

NOTE: Diagram sketches may not be exact for the plan you are building, however, they show correct assembly procedures.

START HERE WITH COMET'S
SUPER X SPEED
CONSTRUCTION

FUSELAGE CONSTRUCTION

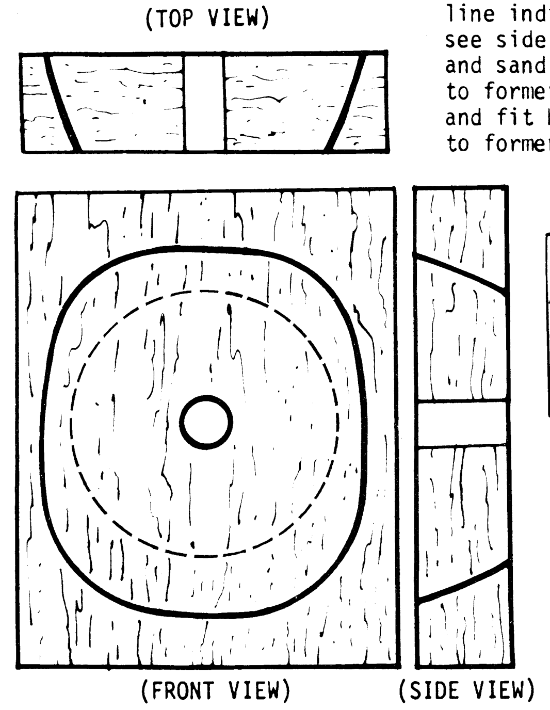


FIG. C

STEP 7.
To carve nose, mark pattern as indicated in Fig. C on 1/2" thick balsa block. Cut nose block using heavy black line as the cut line (Fig. 8). Dotted line indicates the size and shape of the front, see side view of Fig. C for the proper taper. Carve and sand nose block neatly, check for proper fit to former A. Mark position for nose button, drill and fit but DO NOT GLUE BUTTON! Glue nose block to former A.

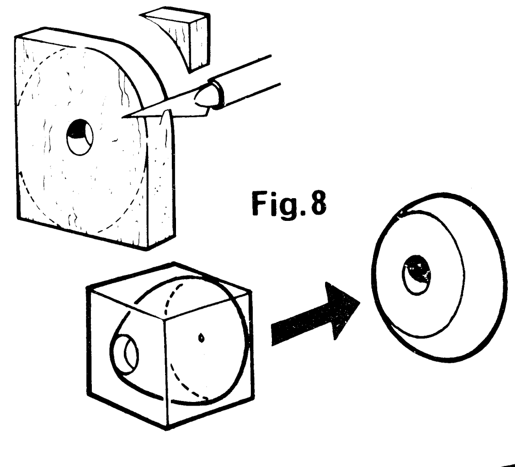


Fig.8

WING CONSTRUCTION

STEP 8.
Cut trailing edge from 3/8" stringer and pin to plan (Fig. D). Lay wax paper over plan so pieces can be easily lifted off.

STEP 9.
Cut main spar to length and pin to plan (Fig. D) as indicated. Glue W8 to it and trailing edge as in Fig. 9.

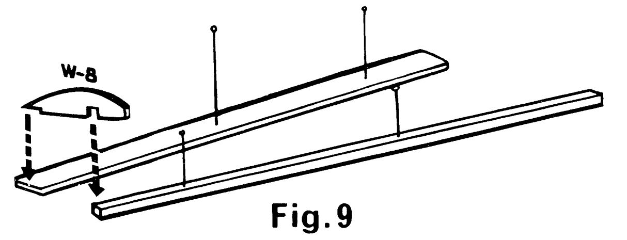


Fig. 9

STEP 10.
Now criss cross wing formers W2 and W3, place in position on Fig. D and glue to main spar and trailing edge. Repeat with W4 and W5, and W6 and W7 (Fig. 10). Glue W1 in place. Note that W1 is glued at an angle (Fig. E). Use Wing Angle (dihedral) template as a guide.

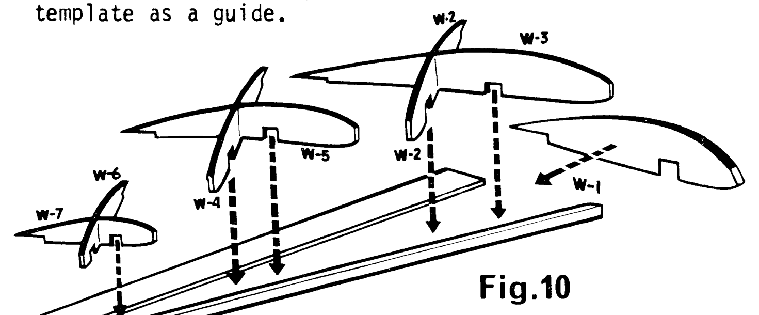


Fig.10

STEP 11.
Now glue W9 to W8 (Fig. 11) at an angle shown in Fig. E. Cut leading edge spar to length (Fig. D) and glue to front of ribs, pin to hold in position while drying. (Note it will make assembly of leading edge easier if the tips of wing ribs are sanded to a flat surface.) When dry pins may be removed. Proceed by gluing W10 into place (Fig. 12). Now complete wing by gluing top stringers into notches (Fig. 13), trim off excess when dry. Repeat wing assembly steps for other wing half. Finish leading edges by trimming excess wood and sanding to rounded edge (Fig. 14). Trailing edges can also be sanded and rounded at this time.

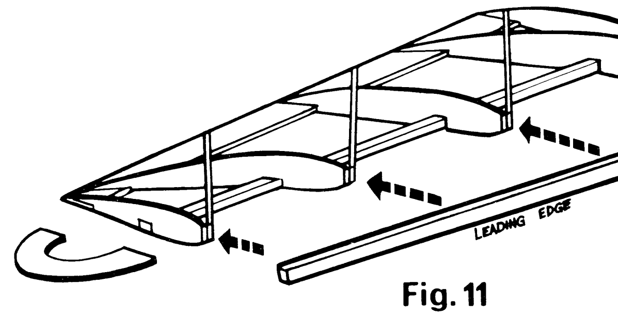


Fig. 11

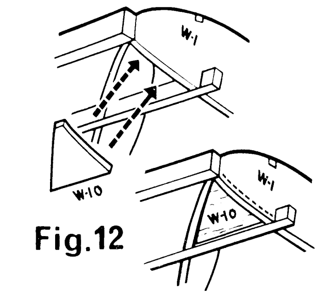


Fig.12

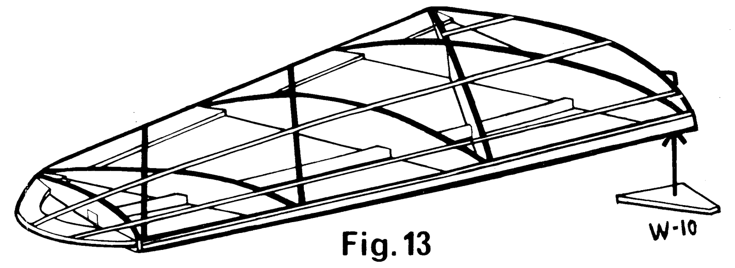


Fig. 13

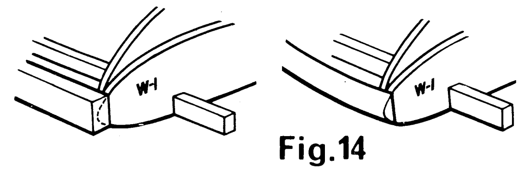


Fig.14

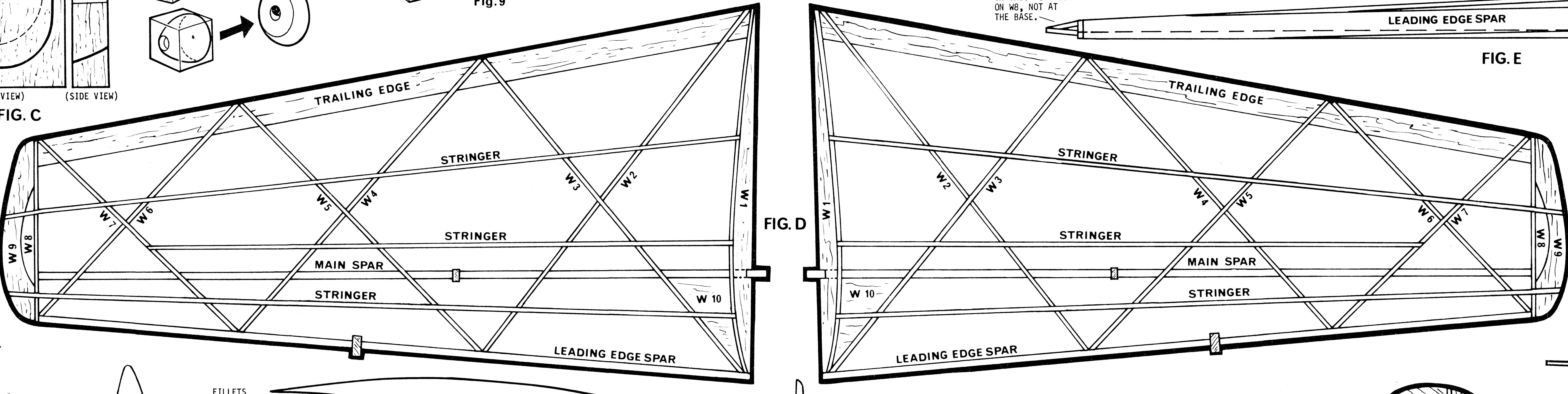


FIG. D

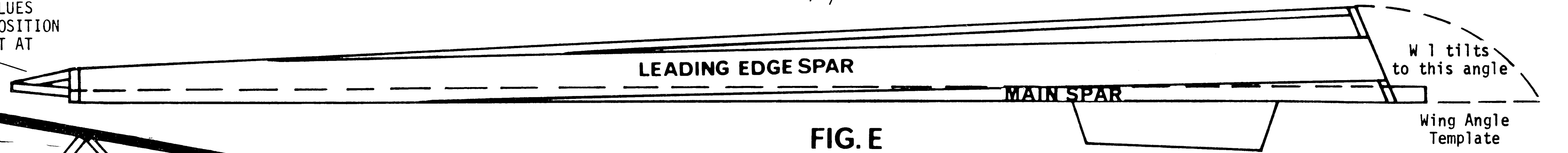


FIG. E

RUDDER AND STABILIZER

STEP 12.
Glue rudder in position over plan, cut cross bracing from 1/16" stringer wood to fit as shown (Fig. A). Glue stabilizer pieces in place as in Fig. F, using 1/16" stringer as indicated.

STEP 13.
Now sand fuselage, wings and tail pieces lightly, making sure no sharp edges protrude on surfaces that are to be covered with tissue. COVER THE PLANE WITH TISSUE. Refer to enclosed sheet for tips on covering your model with tissue. After covering model may be painted using paint scheme below.

STEP 14.
Insert propeller, button, hook and rubber band (cut to length and tied with square knot) into fuselage tube. Fasten rubber band at rear with dowel thru F7 (Fig. 15). Carve nose spinner out of 1-1/4" balsa block.

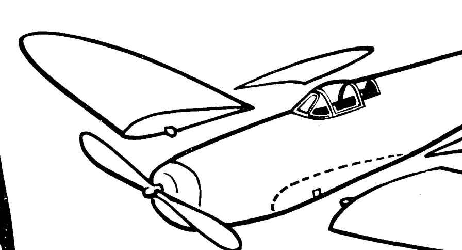


Fig. 16

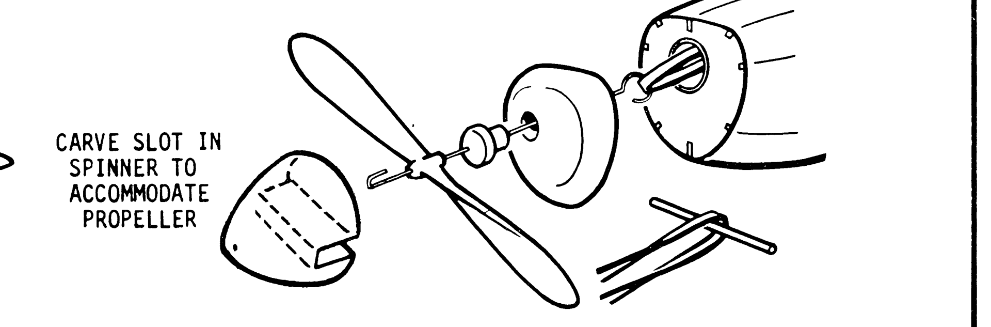
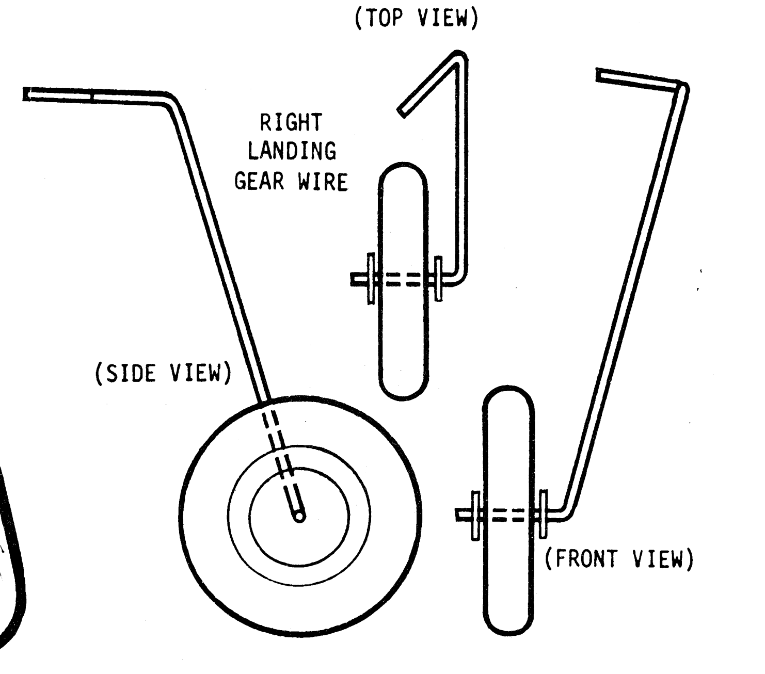


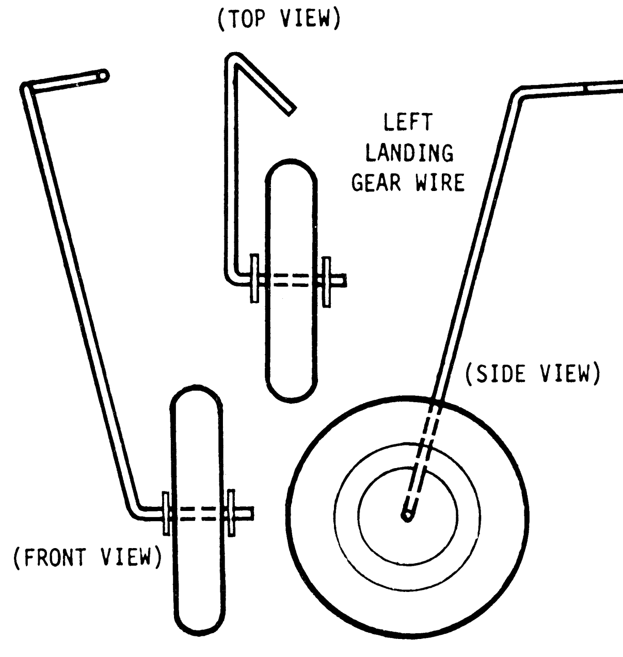
Fig. 15

STEP 15.
Glue wings, fillets (paper), stabilizer and rudder to fuselage (Fig. 16). Cut and glue 2 pieces of stringer (S) to support stabilizer.

STEP 16.
Bend landing gear wire as shown and glue in place by sandwiching wire between 2 pieces of W10 (Fig. 17). Use sequins and glue to hold wheel on wire. Glue L1 onto wire on both sides

STEP 17.
Cut out air scoop, oil cooler and exhausts, fold to shape as necessary and glue to fuselage. (Fig. 18).





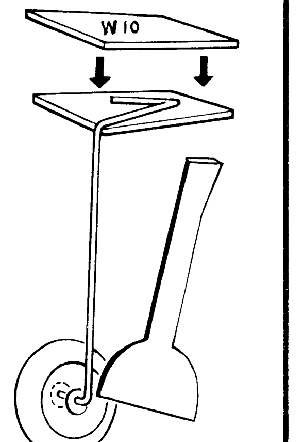
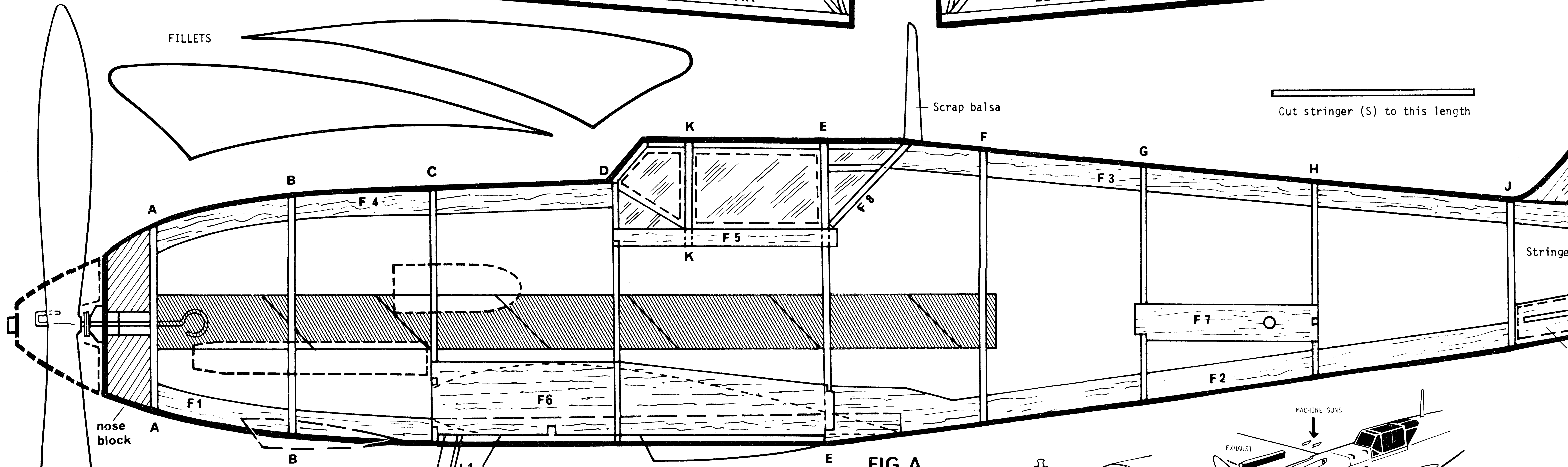


Fig.17



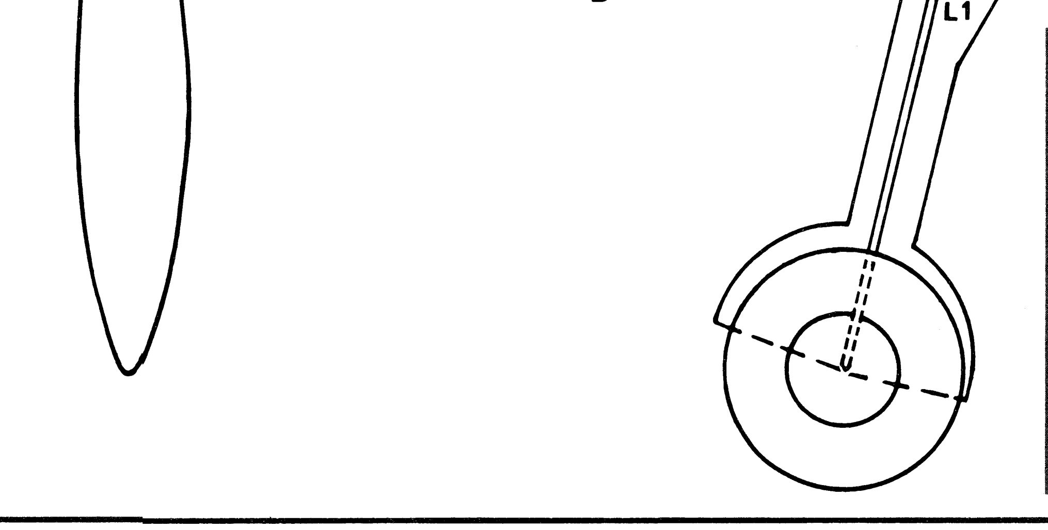
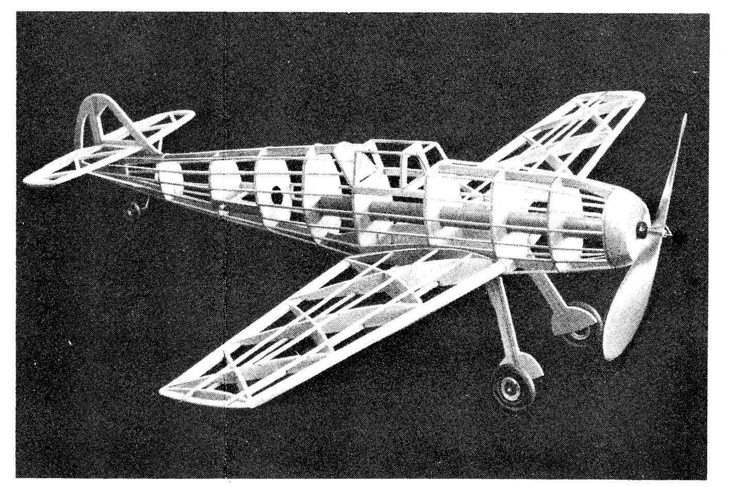
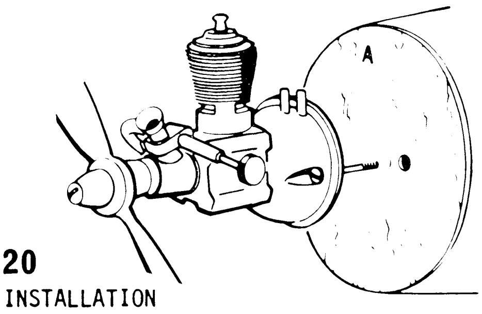


FIG. A





.010 or .020
GAS ENGINE INSTALLATION
(Use .010 for free flight, .020 for control line flight.)

Make front former A from 1/16" plywood and bolt engine as indicated. Plywood is not included but is available from your hobby dealer.

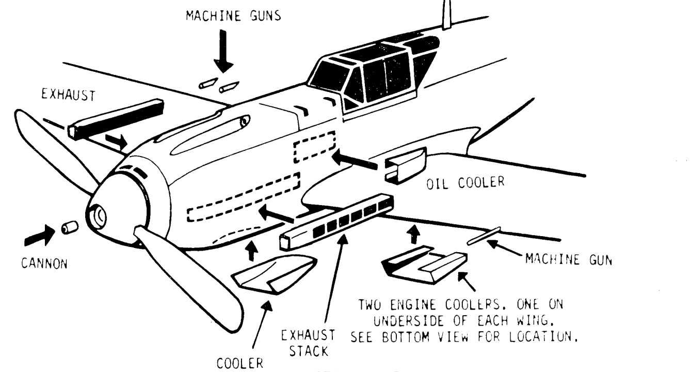
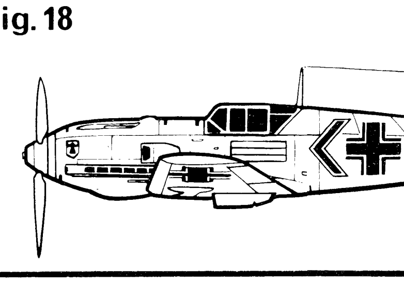
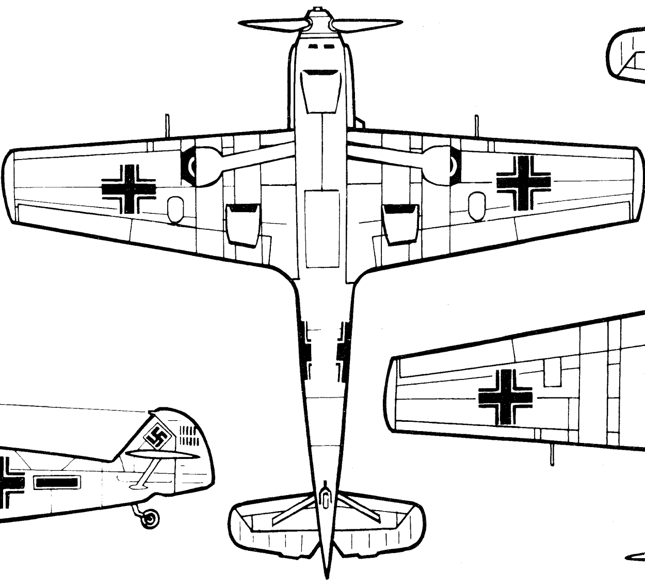
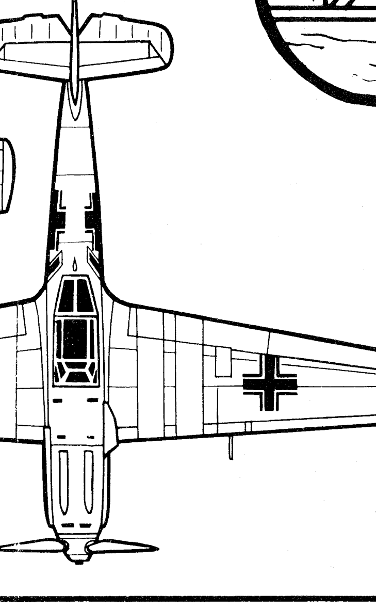


Fig. 18







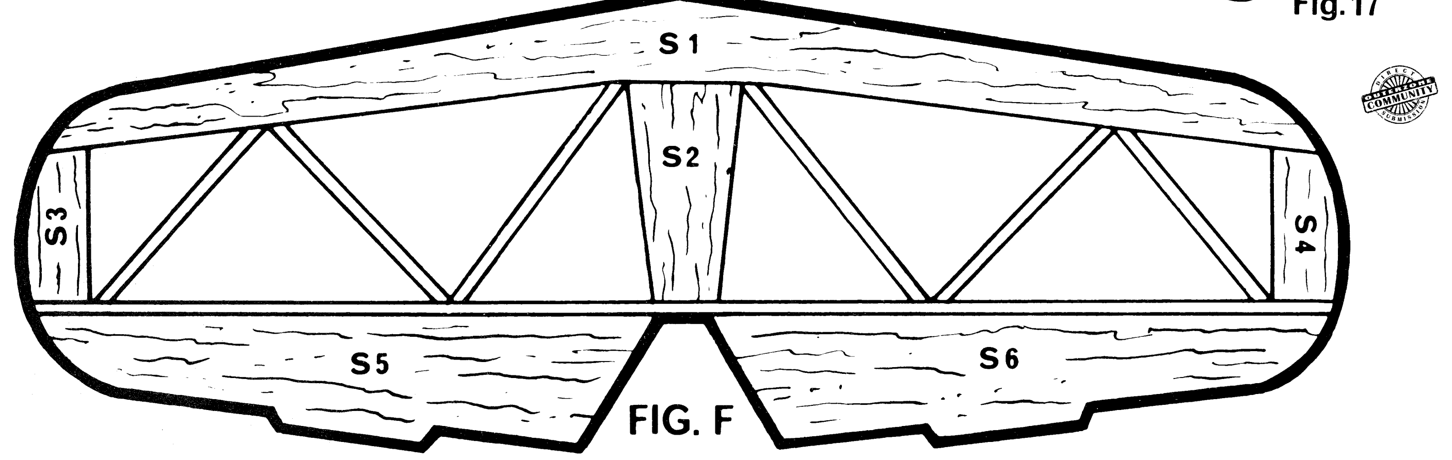


FIG. F

PAINT SCHEME
SEE COVER ART FOR GUIDE

SPINNER: HALF RED--HALF WHITE (SEE ART ON SIDE PANEL OF CARTON)

COWLING-TOP HALF: YELLOW
BOTTOM HALF: SILVER METALLIC

FUSELAGE-TOP HALF: TWO TONE GREEN CAMOUFLAGE DARK OLIVE, LT. SPINACH
BOTTOM HALF: LIGHT SAND WITH DARK BROWN CAMOUFLAGE SWIRLS
UNDERSIDE: VERY LT. ROBIN'S EGG BLUE

RUDDER-FRONT HALF: TWO TONE GREEN-DARK OLIVE, LT. SPINACH
REAR HALF: YELLOW

STABILIZER-TOP: TWO TONE GREEN-DARK OLIVE, LT. SPINACH
BOTTOM: VERY LIGHT ROBIN'S EGG BLUE

WINGS-TOP: TWO TONE GREEN-DARK OLIVE, LT. SPINACH WITH TWO YELLOW STRIPES AS ON COVER
WING TIPS: SILVER METALLIC
BOTTOM: VERY LT. ROBIN'S EGG BLUE

Messerschmitt Bf 109E

FEATURING **SUPER X SPEED** CONSTRUCTION

WINGSPAN 22 INCHES
LENGTH 19 1/2 INCHES
KIT NO. 1625

DESIGNED BY
COMET

COMET INDUSTRIES CORP., Chicago, Illinois 60609