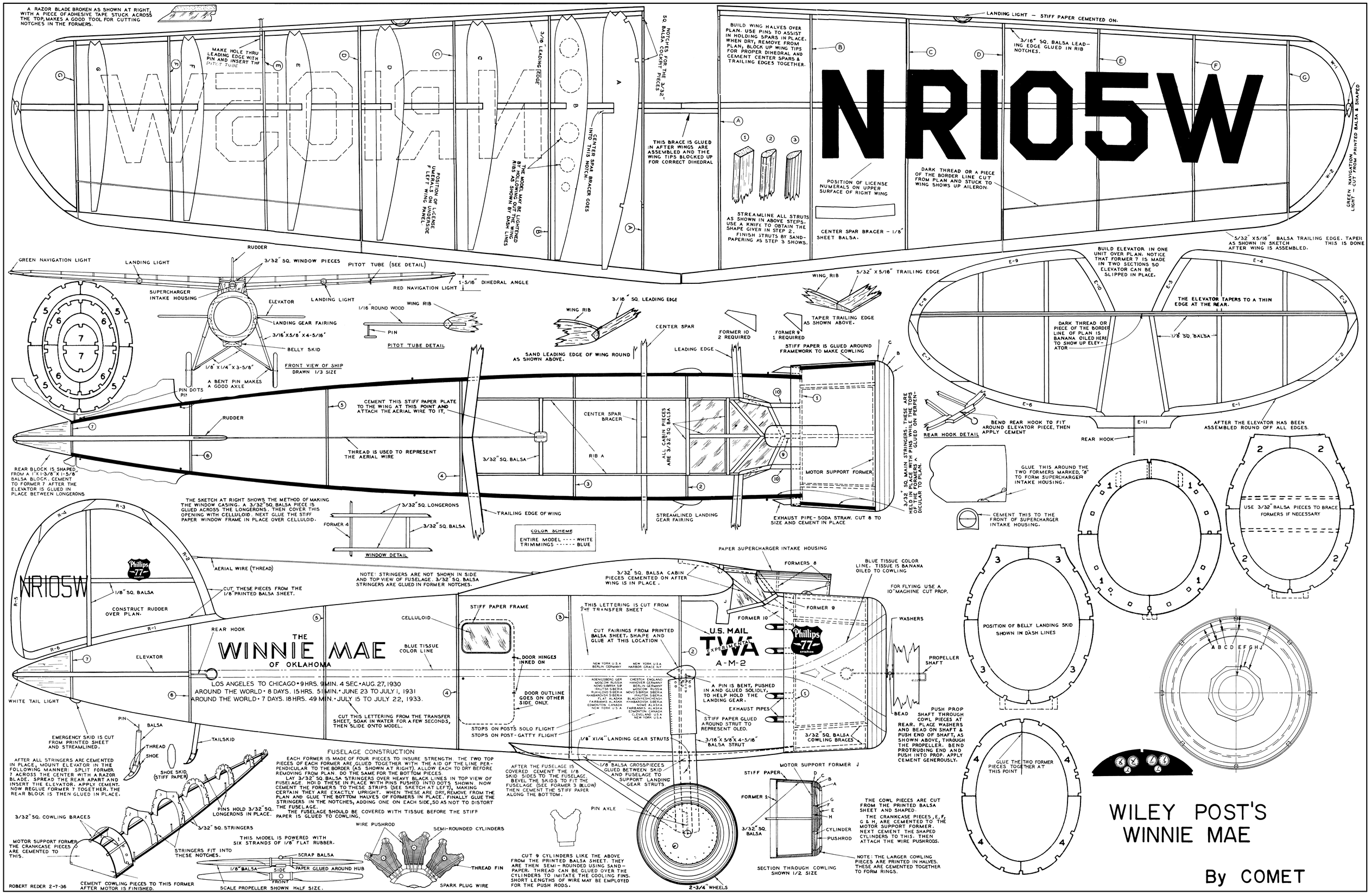
A RAZOR BLADE BROKEN AS SHOWN AT RIGHT, WITH A PIECE OF ADHESIVE TAPE STUCK ACROSS THE TOP, MAKES A GOOD TOOL FOR CUTTING NOTCHES IN THE FORMERS.
MAKE HOLE THRU LEADING EDGE WITH PIN AND INSERT THE PITOT TUBE
3/16" LEADING EDGE
NOTCHES FOR THE 3/32" SQ. BALSA COCKPIT PIECES
POSITION OF LICENSE NUMERALS ON UNDERSIDE LEFT WING PANEL
THE MODEL MAY BE LIGHTENED BY HOLLOWING OUT THE RIBS AS SHOWN BY DASH LINES
CENTER SPAR BRACER GOES INTO THIS NOTCH.
THIS BRACE IS GLUED IN AFTER WINGS ARE ASSEMBLED AND THE WING TIPS BLOCKED UP FOR CORRECT DIHEDRAL
BUILD WING HALVES OVER PLAN. USE PINS TO ASSIST IN HOLDING SPARS IN PLACE. WHEN DRY, REMOVE FROM PLAN, BLOCK UP WING TIPS FOR PROPER DIHEDRAL AND CEMENT CENTER SPARS & TRAILING EDGES TOGETHER.
LANDING LIGHT — STIFF PAPER CEMENTED ON.
3/16" SQ. BALSA LEADING EDGE GLUED IN RIB NOTCHES.
NR105W
POSITION OF LICENSE NUMERALS ON UPPER SURFACE OF RIGHT WING
DARK THREAD OR A PIECE OF THE BORDER LINE CUT FROM PLAN AND STUCK TO WING SHOWS UP AILERON.
STREAMLINE ALL STRUTS AS SHOWN IN ABOVE STEPS. USE A KNIFE TO OBTAIN THE SHAPE GIVEN IN STEP 2. FINISH STRUTS BY SANDPAPERING AS STEP 3 SHOWS.
CENTER SPAR BRACER — 1/8" SHEET BALSA.
GREEN NAVIGATION LIGHT — CUT FROM PRINTED BALSA & SHAPED
5/32" X 5/16" BALSA TRAILING EDGE. TAPER AS SHOWN IN SKETCH. THIS IS DONE AFTER WING IS ASSEMBLED.
GREEN NAVIGATION LIGHT
LANDING LIGHT
RUDDER
3/32" SQ. WINDOW PIECES
PITOT TUBE (SEE DETAIL)
RED NAVIGATION LIGHT
1-5/16" DIHEDRAL ANGLE
SUPERCHARGER INTAKE HOUSING
ELEVATOR
LANDING LIGHT
LANDING GEAR FAIRING
3/16" X 3/8" X 4-5/16"
BELLY SKID
1/8" X 1/4" X 3-5/8"
A BENT PIN MAKES A GOOD AXLE
FRONT VIEW OF SHIP DRAWN 1/3 SIZE
1/16" ROUND WOOD
WING RIB
PIN
PITOT TUBE DETAIL
3/16" SQ. LEADING EDGE
WING RIB
SAND LEADING EDGE OF WING ROUND AS SHOWN ABOVE.
CENTER SPAR
FORMER 10 2 REQUIRED
FORMER 9 1 REQUIRED
LEADING EDGE
STIFF PAPER IS GLUED AROUND FRAMEWORK TO MAKE COWLING
WING RIB
5/32" X 5/16" TRAILING EDGE
TAPER TRAILING EDGE AS SHOWN ABOVE.
BUILD ELEVATOR IN ONE UNIT OVER PLAN. NOTICE THAT FORMER 7 IS MADE IN TWO SECTIONS SO ELEVATOR CAN BE SLIPPED IN PLACE.
THE ELEVATOR TAPERS TO A THIN EDGE AT THE REAR.
DARK THREAD OR PIECE OF THE BORDER LINE OF PLAN IS BANANA OILED HERE TO SHOW UP ELEVATOR
1/8" SQ. BALSA
AFTER THE ELEVATOR HAS BEEN ASSEMBLED ROUND OFF ALL EDGES.
PIN DOTS
RUDDER
CEMENT THIS STIFF PAPER PLATE TO THE WING AT THIS POINT AND ATTACH THE AERIAL WIRE TO IT.
THREAD IS USED TO REPRESENT THE AERIAL WIRE
3/32" SQ. BALSA
CENTER SPAR BRACER
RIB A
ALL CABIN PIECES ARE 3/32" SQ. BALSA
MOTOR SUPPORT FORMER
3/32" SQ. MAIN STRINGERS. HELD IN PLACE WITH PINS WHILE THE TOPS ARE GLUED ON PERPENDICULAR TO PLAN.
REAR HOOK DETAIL
BEND REAR HOOK TO FIT AROUND ELEVATOR PIECE, THEN APPLY CEMENT
REAR HOOK
REAR BLOCK IS SHAPED FROM A 1" X 1-3/8" X 1-5/8" BALSA BLOCK. CEMENT TO FORMER 7 AFTER THE ELEVATOR IS GLUED IN PLACE BETWEEN LONGERONS
THE SKETCH AT RIGHT SHOWS THE METHOD OF MAKING THE WINDOW CASING. A 3/32" SQ. BALSA PIECE IS GLUED ACROSS THE LONGERONS. THEN COVER THIS OPENING WITH CELLULOID. NEXT GLUE THE STIFF PAPER WINDOW FRAME IN PLACE OVER CELLULOID.
3/32" SQ. LONGERONS
FORMER 4
3/32" SQ. BALSA
WINDOW DETAIL
TRAILING EDGE OF WING
STREAMLINED LANDING GEAR FAIRING
EXHAUST PIPE - SODA STRAW. CUT 8 TO SIZE AND CEMENT IN PLACE
GLUE THIS AROUND THE TWO FORMERS MARKED, "8" TO FORM SUPERCHARGER INTAKE HOUSING.
CEMENT THIS TO THE FRONT OF SUPERCHARGER INTAKE HOUSING.
USE 3/32" BALSA PIECES TO BRACE FORMERS IF NECESSARY
COLOR SCHEME
ENTIRE MODEL ---- WHITE
TRIMMINGS ------ BLUE
PAPER SUPERCHARGER INTAKE HOUSING
FORMERS 8
BLUE TISSUE COLOR LINE. TISSUE IS BANANA OILED TO COWLING
FOR FLYING USE A 10" MACHINE CUT PROP.
AERIAL WIRE (THREAD)
NOTE: STRINGERS ARE NOT SHOWN IN SIDE AND TOP VIEW OF FUSELAGE. 3/32" SQ. BALSA STRINGERS ARE GLUED IN FORMER NOTCHES.
3/32" SQ. BALSA CABIN PIECES CEMENTED ON AFTER WING IS IN PLACE.
CUT THESE PIECES FROM THE 1/8" PRINTED BALSA SHEET.
1/8" SQ. BALSA
CONSTRUCT RUDDER OVER PLAN.
STIFF PAPER FRAME
THIS LETTERING IS CUT FROM THE TRANSFER SHEET
CELLULOID
REAR HOOK
THE WINNIE MAE OF OKLAHOMA
BLUE TISSUE COLOR LINE
CUT FAIRINGS FROM PRINTED BALSA SHEET, SHAPE AND GLUE AT THIS LOCATION
FORMER 10
FORMER 9
U.S. MAIL TWA EXPERIMENTAL A-M-2
WASHERS
ELEVATOR
DOOR HINGES INKED ON
DOOR OUTLINE GOES ON OTHER SIDE ONLY.
NEW YORK U.S.A. BERLIN GERMANY
NEW YORK U.S.A. HARBOR GRACE N.F.
RODENSBERG GER. MOSCOW RUSSIA NOVO SIBIRSK SIB. IRKUTSK SIBERIA RUKHLOVO SIBERIA KHABAROVSK SIBERIA FLAT ALASKA FAIRBANKS ALASKA EDMONTON CANADA NEW YORK U.S.A.
CHESTER ENGLAND HANOVER GERMANY BERLIN GERMANY MOSCOW RUSSIA NOVO SIBIRSK SIBERIA IRKUTSK SIBERIA BLAGOVYESHCHENSK KHABAROVSK SIBERIA NOME ALASKA FAIRBANKS ALASKA EDMONTON CANADA CLEVELAND U.S.A. NEW YORK U.S.A.
A PIN IS BENT, PUSHED IN AND GLUED SOLIDLY, TO HELP HOLD THE LANDING GEAR.
EXHAUST PIPES
STIFF PAPER GLUED AROUND STRUT TO REPRESENT OLEO.
3/16" X 5/8" X 4-5/16" BALSA STRUT
3/32" SQ. BALSA COWLING BRACES
PROPELLER SHAFT
BEAD
PUSH PROP SHAFT THROUGH COWL PIECES AT REAR. PLACE WASHERS AND BEAD ON SHAFT & PUSH END OF SHAFT, AS SHOWN ABOVE, THROUGH THE PROPELLER. BEND PROTRUDING END AND PUSH INTO PROP. APPLY CEMENT GENEROUSLY.
POSITION OF BELLY LANDING SKID SHOWN IN DASH LINES
LOS ANGELES TO CHICAGO • 9 HRS. 9 MIN. 4 SEC • AUG. 27, 1930
AROUND THE WORLD • 8 DAYS. 15 HRS. 51 MIN. • JUNE 23 TO JULY 1, 1931
AROUND THE WORLD • 7 DAYS. 18 HRS. 49 MIN. • JULY 15 TO JULY 22, 1933.
CUT THIS LETTERING FROM THE TRANSFER SHEET, SOAK IN WATER FOR A FEW SECONDS, THEN SLIDE ONTO MODEL.
WHITE TAIL LIGHT
STOPS ON POSTS SOLO FLIGHT
STOPS ON POST - GATTY FLIGHT
1/8" X 1/4" LANDING GEAR STRUTS
GLUE THE TWO FORMER PIECES TOGETHER AT THIS POINT
EMERGENCY SKID IS CUT FROM PRINTED SHEET AND STREAMLINED.
PIN
BALSA
THREAD
SHOE
TAILSKID
SHOE SKID (STIFF PAPER)
AFTER ALL STRINGERS ARE CEMENTED IN PLACE, MOUNT ELEVATOR IN THE FOLLOWING MANNER: SPLIT FORMER 7 ACROSS THE CENTER WITH A RAZOR BLADE. SPREAD THE REAR APART AND INSERT THE ELEVATOR. APPLY CEMENT. NOW REGLUE FORMER 7 TOGETHER. THE REAR BLOCK IS THEN GLUED IN PLACE.
FUSELAGE CONSTRUCTION
EACH FORMER IS MADE OF FOUR PIECES TO INSURE STRENGTH. THE TWO TOP PIECES OF EACH FORMER ARE GLUED TOGETHER WITH THE AID OF THE LINE PERPENDICULAR TO THE BORDER (AS SHOWN AT RIGHT). ALLOW EACH TO DRY BEFORE REMOVING FROM PLAN. DO THE SAME FOR THE BOTTOM PIECES.
LAY 3/32" SQ. BALSA STRINGERS OVER HEAVY BLACK LINES IN TOP VIEW OF FUSELAGE. HOLD THESE IN PLACE WITH PINS PUSHED INTO DOTS SHOWN. NOW CEMENT THE FORMERS TO THESE STRIPS (SEE SKETCH AT LEFT), MAKING CERTAIN THEY ARE EXACTLY UPRIGHT. WHEN THESE ARE DRY, REMOVE FROM THE PLAN AND GLUE THE BOTTOM HALVES OF FORMERS IN PLACE. FINALLY GLUE THE STRINGERS IN THE NOTCHES, ADDING ONE ON EACH SIDE, SO AS NOT TO DISTORT THE FUSELAGE.
THE FUSELAGE SHOULD BE COVERED WITH TISSUE BEFORE THE STIFF PAPER IS GLUED TO COWLING.
AFTER THE FUSELAGE IS COVERED CEMENT THE 1/8" SKID SIDES TO THE FUSELAGE. BEVEL THE SKIDS TO FIT THE FUSELAGE (SEE FORMER 3 BELOW) THEN CEMENT THE STIFF PAPER ALONG THE BOTTOM.
1/8" BALSA CROSSPIECES GLUED BETWEEN SKID AND FUSELAGE TO SUPPORT LANDING GEAR STRUTS
PINS HOLD 3/32" SQ. LONGERONS IN PLACE.
3/32" SQ. COWLING BRACES
3/32" SQ. STRINGERS
MOTOR SUPPORT FORMER. THE CRANKCASE PIECES ARE CEMENTED TO THIS.
STRINGERS FIT INTO THESE NOTCHES.
THIS MODEL IS POWERED WITH SIX STRANDS OF 1/8" FLAT RUBBER.
CEMENT COWLING PIECES TO THIS FORMER AFTER MOTOR IS FINISHED.
SCRAP BALSA
1/8" BALSA
PAPER GLUED AROUND HUB
SIDE
FRONT
SCALE PROPELLER SHOWN HALF SIZE.
WIRE PUSHROD
SEMI-ROUNDED CYLINDERS
THREAD FIN
SPARK PLUG WIRE
PIN AXLE
CUT 9 CYLINDERS LIKE THE ABOVE FROM THE PRINTED BALSA SHEET. THEY ARE THEN SEMI-ROUNDED USING SANDPAPER. THREAD CAN BE GLUED OVER THE CYLINDERS TO IMITATE THE COOLING FINS. SHORT LENGTHS OF WIRE MAY BE EMPLOYED FOR THE PUSH RODS.
2-3/4" WHEELS
MOTOR SUPPORT FORMER J
STIFF PAPER
FORMER 1
3/32" SQ. BALSA
CYLINDER
PUSHROD
SECTION THROUGH COWLING SHOWN 1/2 SIZE
THE COWL PIECES ARE CUT FROM THE PRINTED BALSA SHEET AND SHAPED.
THE CRANKCASE PIECES, E, F, G & H, ARE CEMENTED TO THE MOTOR SUPPORT FORMER. NEXT CEMENT THE SHAPED CYLINDERS TO THIS. THEN ATTACH THE WIRE PUSHRODS.
NOTE: THE LARGER COWLING PIECES ARE PRINTED IN HALVES. THESE ARE CEMENTED TOGETHER TO FORM RINGS.
ROBERT REDER 2-7-36
WILEY POST'S WINNIE MAE
By COMET