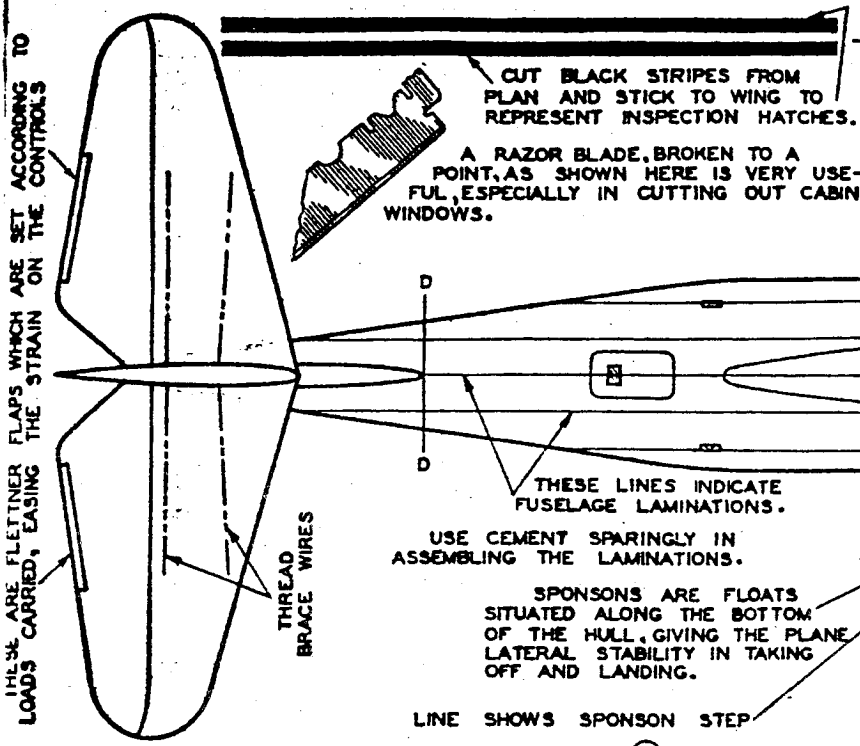


THESE ARE FLEETNER FLAPS WHICH ARE SET ACCORDING TO LOADS CARRIED, EASING THE STRAIN ON THE CONTROLS



CUT BLACK STRIPES FROM PLAN AND STICK TO WING TO REPRESENT INSPECTION HATCHES.

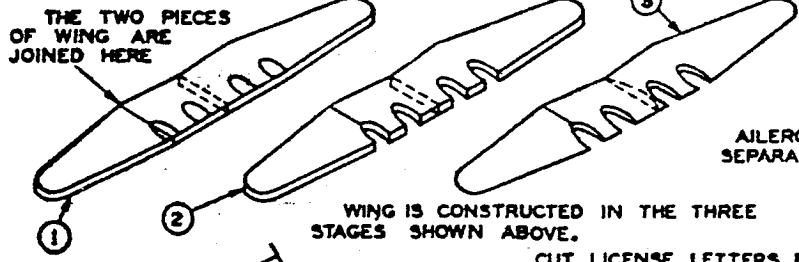
A RAZOR BLADE, BROKEN TO A POINT, AS SHOWN HERE IS VERY USEFUL, ESPECIALLY IN CUTTING OUT CABIN WINDOWS.

THESE LINES INDICATE FUSELAGE LAMINATIONS.

USE CEMENT SPARINGLY IN ASSEMBLING THE LAMINATIONS.

SPONSONS ARE FLOATS SITUATED ALONG THE BOTTOM OF THE HULL, GIVING THE PLANE LATERAL STABILITY IN TAKING OFF AND LANDING.

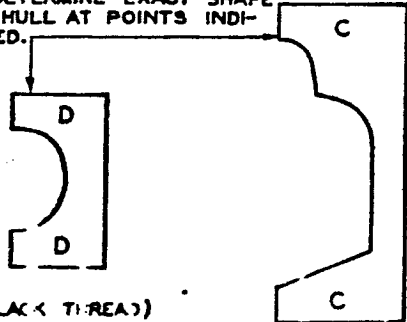
LINE SHOWS SPONSON STEP



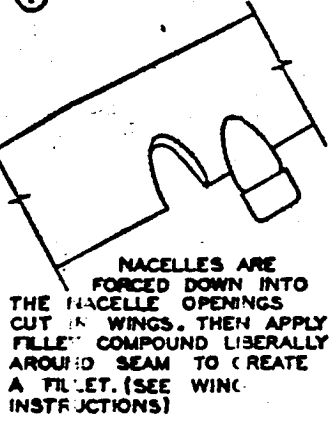
WING IS CONSTRUCTED IN THE THREE STAGES SHOWN ABOVE.

CUT LICENSE LETTERS FROM PLAN AND GLUE IN THIS POSITION

CUT HULL TEMPLATES FROM PLAN, STICK TO THIN CARDBOARD AND USE TO DETERMINE EXACT SHAPE OF HULL AT POINTS INDICATED.



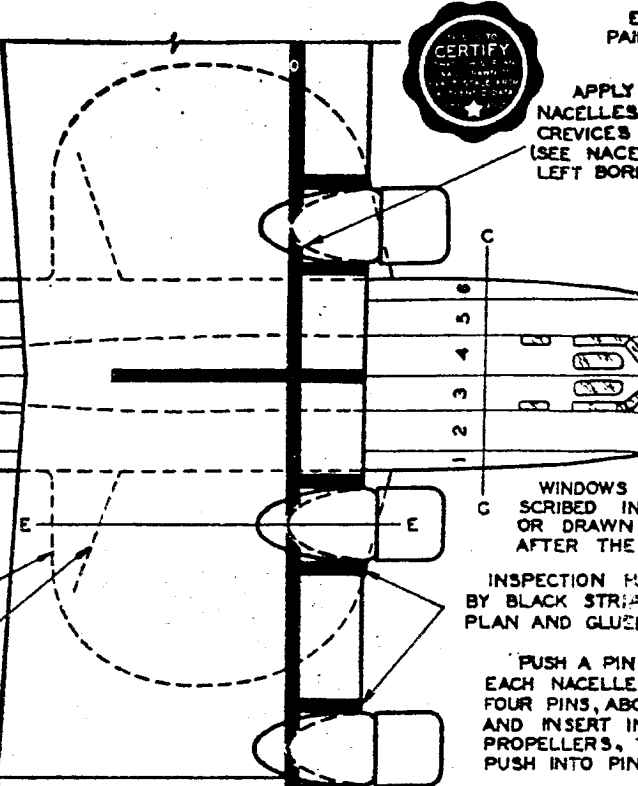
AERIAL (BLACK THREAD)



NACELLES ARE FORCED DOWN INTO THE NACELLE OPENINGS CUT IN WINGS. THEN APPLY FILLER COMPOUND LIBERALLY AROUND SEAM TO CREATE A FILET. (SEE WING INSTRUCTIONS)



APPLY NACELLES TO CREVICES (SEE NACELLE LEFT BOARD)



WINDOWS SCRIBED IN OR DRAWN AFTER THE

INSPECTION HATCHES BY BLACK STRIPES FROM PLAN AND GLUED

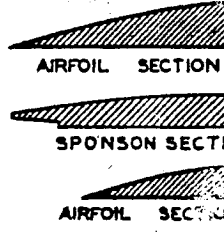
PUSH A PIN INTO EACH NACELLE. USE FOUR PINS, ABOVE AND BELOW PROPELLERS, TO PUSH INTO PIN

PROPELLERS CUT FROM PRINTED PAPER. TWIS IS AN EQUAL IN EACH BL

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AILERON SEPARATION

LANDING LIGHT

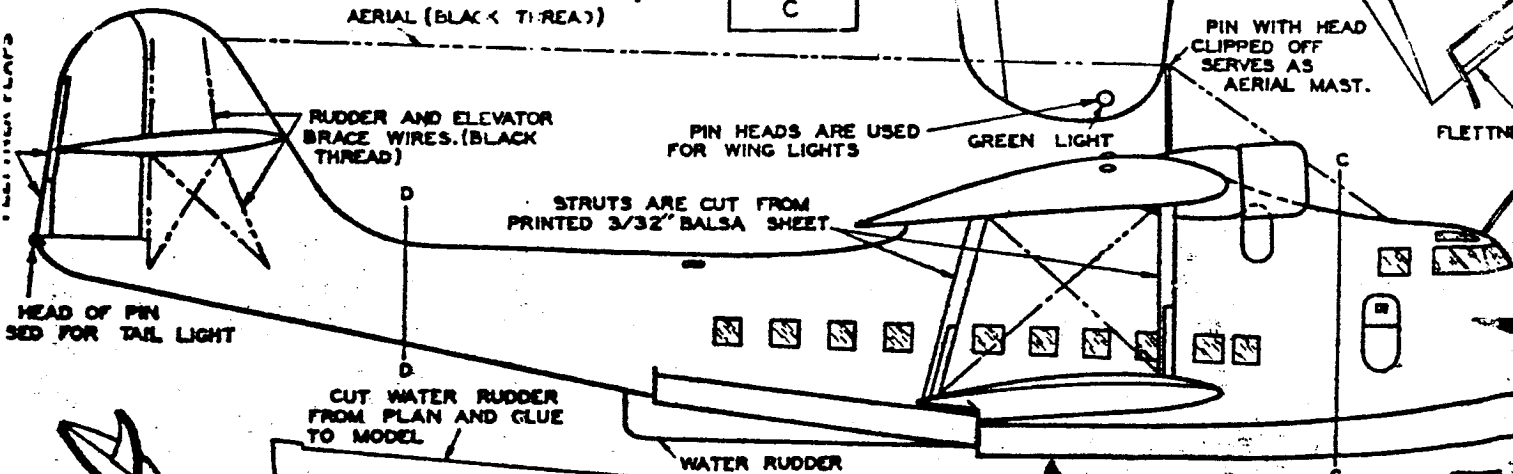


AIRFOIL SECTION

SPONSON SECTION

AIRFOIL SECTION

AILERONS, FLAPS, AND OTHER MARKINGS ARE PLACED ON MODEL AFTER IT HAS BEEN PAINTED.



RUDDER AND ELEVATOR BRACE WIRES. (BLACK THREAD)

PIN HEADS ARE USED FOR WING LIGHTS

GREEN LIGHT

STRUTS ARE CUT FROM PRINTED 3/32" Balsa SHEET

PIN WITH HEAD CLIPPED OFF SERVES AS AERIAL MAST.

HEAD OF PIN USED FOR TAIL LIGHT

CUT WATER RUDDER FROM PLAN AND GLUE TO MODEL

WATER RUDDER

APPROXIMATE CENTER OF GRAVITY

PEDESTAL IS CUT FROM THE PRINTED Balsa SHEET. GLUE MODEL TO PEDESTAL AT CENTER OF GRAVITY, SHOWN IN SIDE VIEW.

PAN AMERICAN AIRWAYS INSIGNIA CUT FROM PLAN AND GLUED TO MODEL

ENTIRE MODEL IS PAINTED ALUMINUM.

APPLY CEMENT AROUND NACELLES SO AS TO FILL IN SPACES UP TO DASH LINES. NACELLES DETAIL NEAR BORDER OF PLAN!

DOWN AND HATCHES ARE DRAWN IN WITH A SOFT PENCIL, DRAWN UP WITH BLACK INK. THE MODEL IS PAINTED.

ON HATCHES ARE REPRESENTED STRIPES WHICH ARE CUT FROM GLUED IN POSITION SHOWN.

A PIN INTO CENTER OF NACELLE. NOW CLIP OFF IS, ABOUT 1/16" LONG INSERT INTO CENTER OF OTHERS, THEN TO PIN HOLES.

PROPELLERS ARE CUT FROM PRINTED ALUMINUM TWIST BEADS SO THERE EQUAL AMOUNT OF PITCH EACH BLADE.

SECTION EE IS A TYPICAL SPONSON SECTION AT LOCATION SHOWN IN TOP VIEW. CUT STEP IN BOTTOM OF THE SPONSON BEFORE SHAPING. NOTICE IN TOP VIEW THAT IT GRADUALLY DECREASES TOWARD TIP.

AND ALL ARE PLACED IT HAS

ILLUSTRATION SHOWS HOW BORDERLINE OF PLAN IS USED TO SHOW UP AILERON SEPARATION.

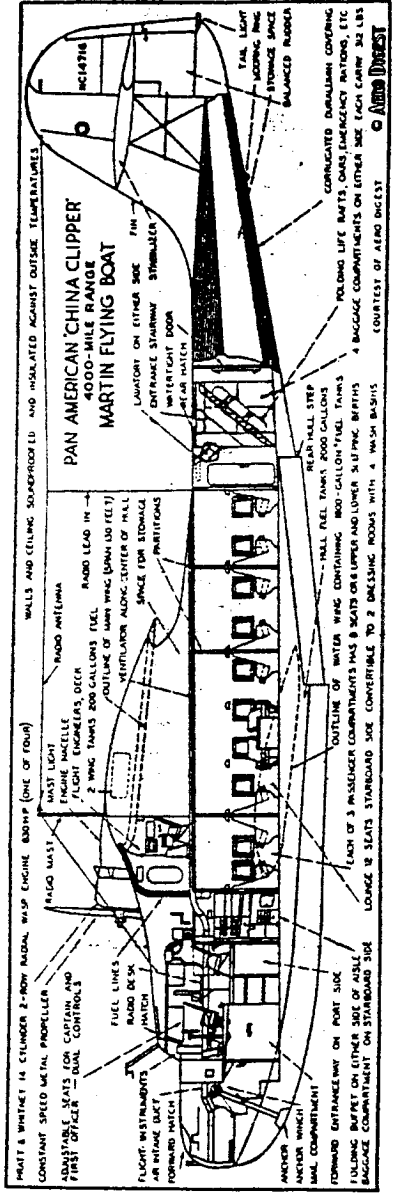
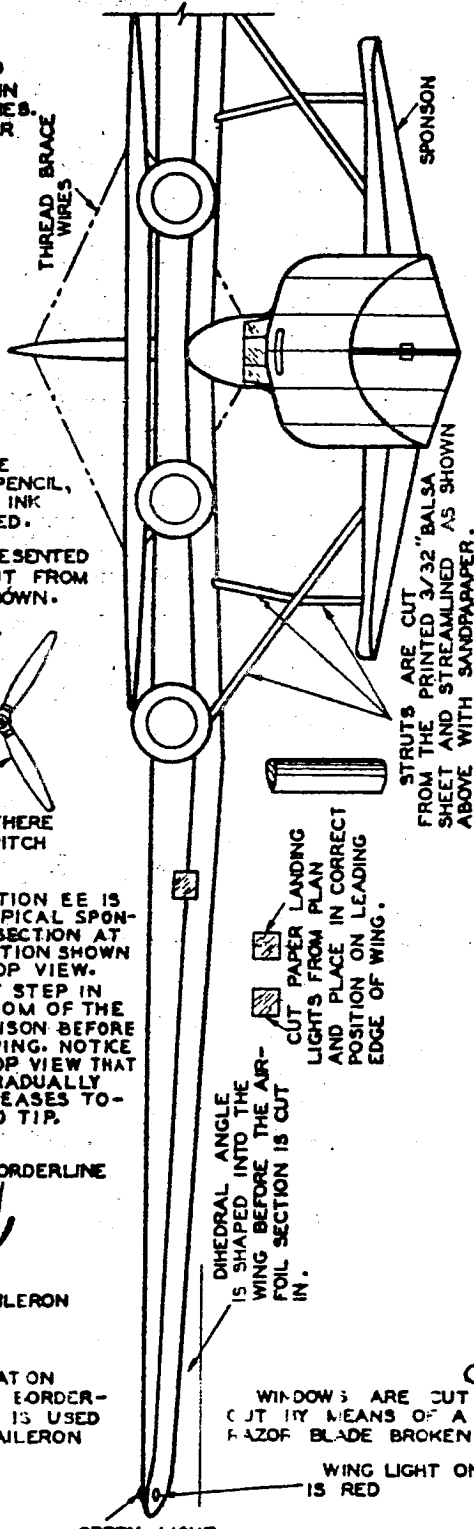
PITOT TUBE IS MADE BY BENDING A PIN TO SHAPE SHOWN. THE PITOT TUBE IS CONNECTED TO THE AIR-SPEED INDICATOR.

ANCHOR COMPARTMENT

NC14716

INSIDE ARE PAINTED AS SHOWN.

CUT LICENSE LETTERS FROM PLAN AND STICK TO BOTTOM OF LEFT WING, READING FROM THE FRONT.



ASSEMBLY DIRECTIONS

The China Clipper is PAN AMERICAN AIRWAYS' long transport airplane, designed by the Glenn L. Martin Co., the Pan American Airways. It is capable of carrying passengers having a wingspan of 130 feet and an overall length of 89 feet 8 inches. This is the first mail plane span the Pacific ocean. At the left is shown the interior arrangement of the ship.

Before beginning construction of the model, read the directions over carefully and acquaint yourself with the construction procedure. This kit employs a new construction, featuring a laminated fuselage which is easier to shape and giving a hollow cabin interior.

HULL (Fuselage)

Cut parts 1, 2, 3, 4, 5, and 6 from the printed balsa sheet. These are the six laminations comprising the hull. Note that laminations 2, 3, 4, and 5 are composed of two parts which are glued together. Cut these pieces very carefully using a sharp jackknife or razor blade. It may be necessary to make two or three strokes before cutting through the wood. Push a pin in end of tube of cement and it is ready for use. Cement the laminations together aligning the spaces over dash lines on preceding one. Allow to dry thoroughly before going further. Figure one (See illustration directly below these directions) shows how your hull appears before shaping.

Now begin to carve hull to shape. Using a sharp jackknife cut the corners of laminations off until hull assumes shape shown in Fig. 2 below. Proceed cautiously now, cutting shown in Fig. 1 using sandpaper. Test hull with ten plates C. and D. Figure 3 shows finished hull. Now is hull aside and follow next step.

TAIL ASSEMBLY (EMPELLAGE)

Cut the rudder and elevator from the printed balsa wood and pierce dots with a needle or pin. This will permit locating brace wire locations. Sandpaper to a streamline shape. See top and side views showing rudder and elevator sections. Glue rudder and elevator together aligning them in notches of each other. Now cement unit to hull. Brace wires are passed through their locations using a needle. Side view shows where they pass through hull.

WING

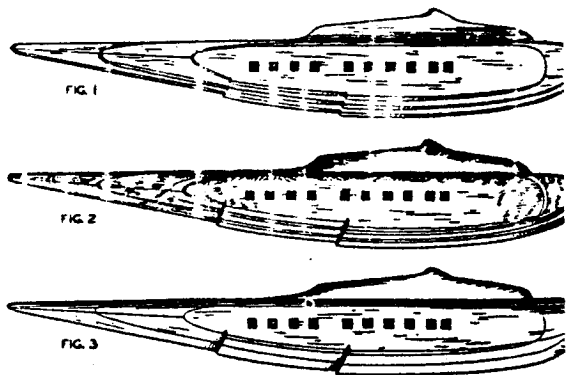
Cut the wing and sponsions out next. Don't try to cut through wood right away, but instead use successive strokes. Cut out openings along leading edge of wing. These are to receive the nacelles. Shape wing carefully as shown by sketch on plan. Sponsions are shaped in same manner as wing. Cement sponsions to fuselage. Glue the four nacelle to wing. Rub some scrap balsa on sandpaper and mix the balsa dust with cement. Pack this in around nacelles to obtain a smooth job. Now cement wing to hull. Cut the wing struts from printed balsa sheet. Guide your razor blade with a metal edged rule to obtain perfectly straight struts. Secure the struts to a streamline section and cement in place.

DOPING THE MODEL

The term doping is generally employed instead of "painting" as the material used is known as "dope." Shake up the small bottle of aluminum dope. Coat the entire model with it using an ordinary water color brush. When dry add all details such as door openings, cabin windows, etc. Cut the license letters from plan and glue them to wing.

Cut the propellers out with the point of the razor blade. Attach them to nacelles as directed on plan. Attach ailerons and brace wires. Use fine silt directed for all brace wires.

The pedestal is made up of three pieces which are glued together as shown on plan at lower left hand corner. Dip it aluminum and glue model to it.



CHINA CLIPPER

WINGSPAN - 12" | LENGTH - 8-3/4"

KIT NO. A-169 | SERIES - ONE STAR

DRAWN BY *R. R. Rabin* | LETTERED BY *John*



GEORGE MODEL AIRPLANE SUPPLY CO.