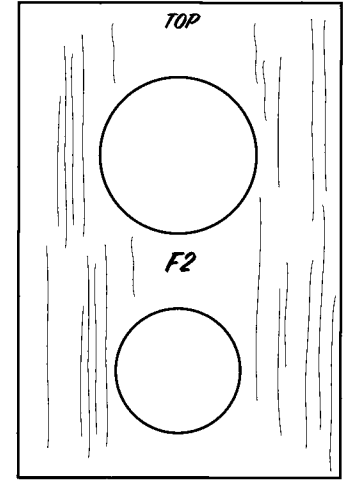
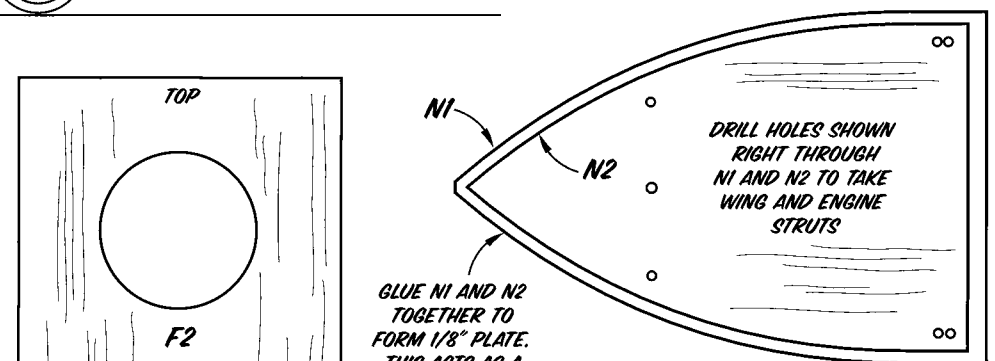
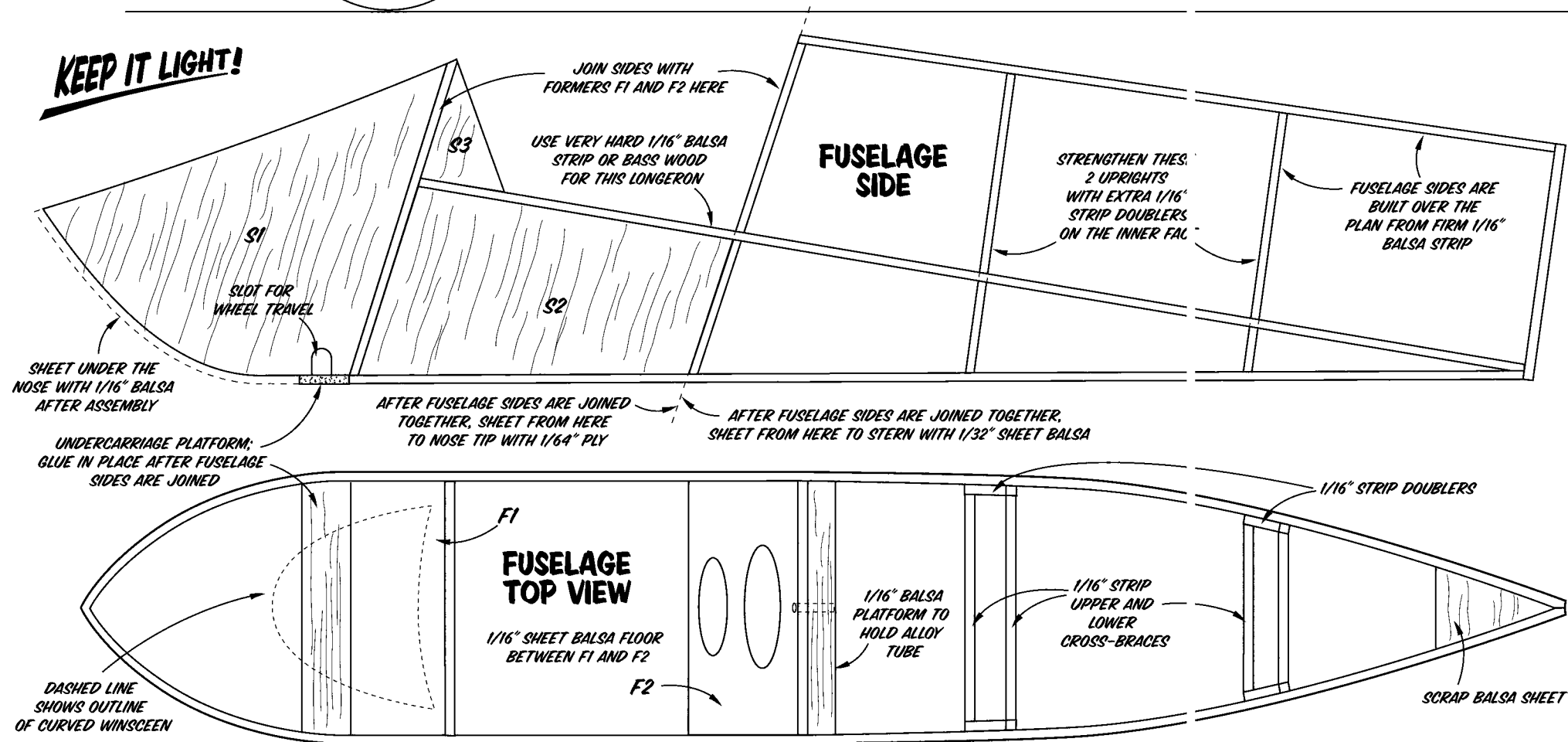


KEEP IT LIGHT!



OF 3 SHEETS

1/12 SCALE

MIGNET POU-DU-CIEL

THE FLYING FLEA

DESIGNED & DRAWN BY Richard Crossley

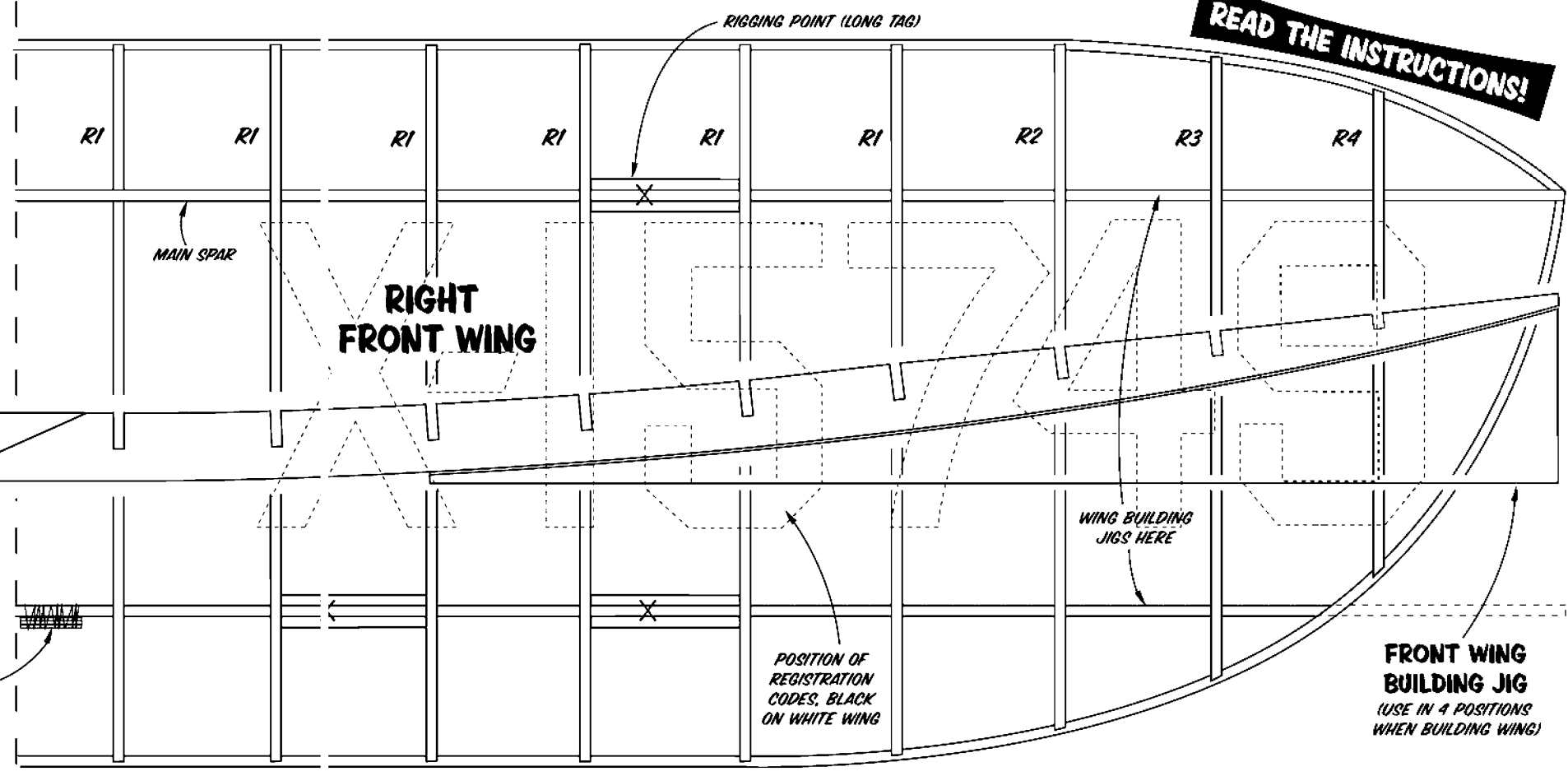
THOSE CURVED LEADING AND TRAILING EDGES!

THE FLEA IS UNUSUAL IN THAT THE OUTLINES OF THE WINGS CURVE UPWARDS AS WELL AS CURVING IN PLAN VIEW. THE OUTLINES ON THIS DESIGN ARE MADE FROM BAMBOO. BAMBOO CAN BE EASILY BENT BY CAREFULLY APPLYING HEAT USING THE SHAFT OF A SOLDERING IRON. I USED BAMBOO SKEWERS STRIPPED DOWN TO ABOUT 1/16" DIA. I BENT THEM IN PLAN VIEW FIRST, THEN IN FRONT VIEW. PRACTISE USING SOME TEST PIECES FIRST - ITS EASIER THAN IT SOUNDS!

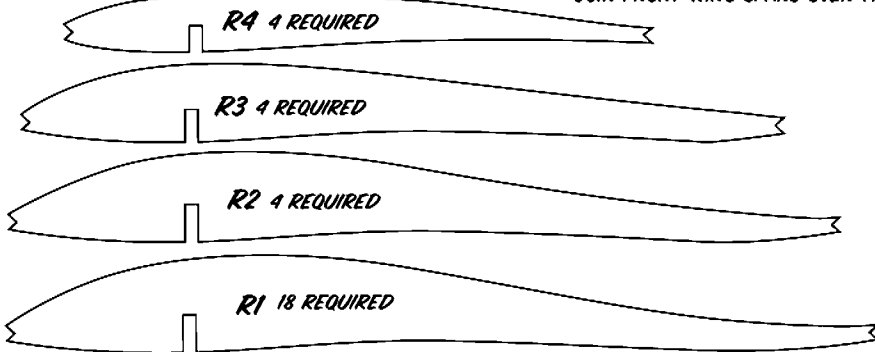
THE CROSLY FLEA

THIS FLEA WAS BUILT IN 1935 AT THE HEIGHT OF THE 'FLEA CRAZE'. IT WAS BUILT FOR PROMINENT CINCINNATI BUSINESSMAN POWEL CROSLY JR. BY HIS CORPORATE PILOT, ED NIRMAYER AND 2 MECHANICS IN JUST 30 DAYS. IT IS CURRENTLY ON DISPLAY IN THE SMITHSONIAN AIR AND SPACE MUSEUM, USA. THE DIHEDRAL ON THE CROSLY FLEA DIFFERS SLIGHTLY FROM 'NORMAL' FLEAS IN THAT IT HAS TAKEN ON A SMOOTH CURVE FROM TIP TO TIP. THE DIHEDRAL WAS APPLIED BY PULLING ON A CHORD ATTACHED TO THE WING TIP. THEN THE TOP SPAR WAS BONDED IN PLACE. THE RESULTS VARIED GREATLY DUE TO QUALITY OF TIMBER USED IN CONSTRUCTION.

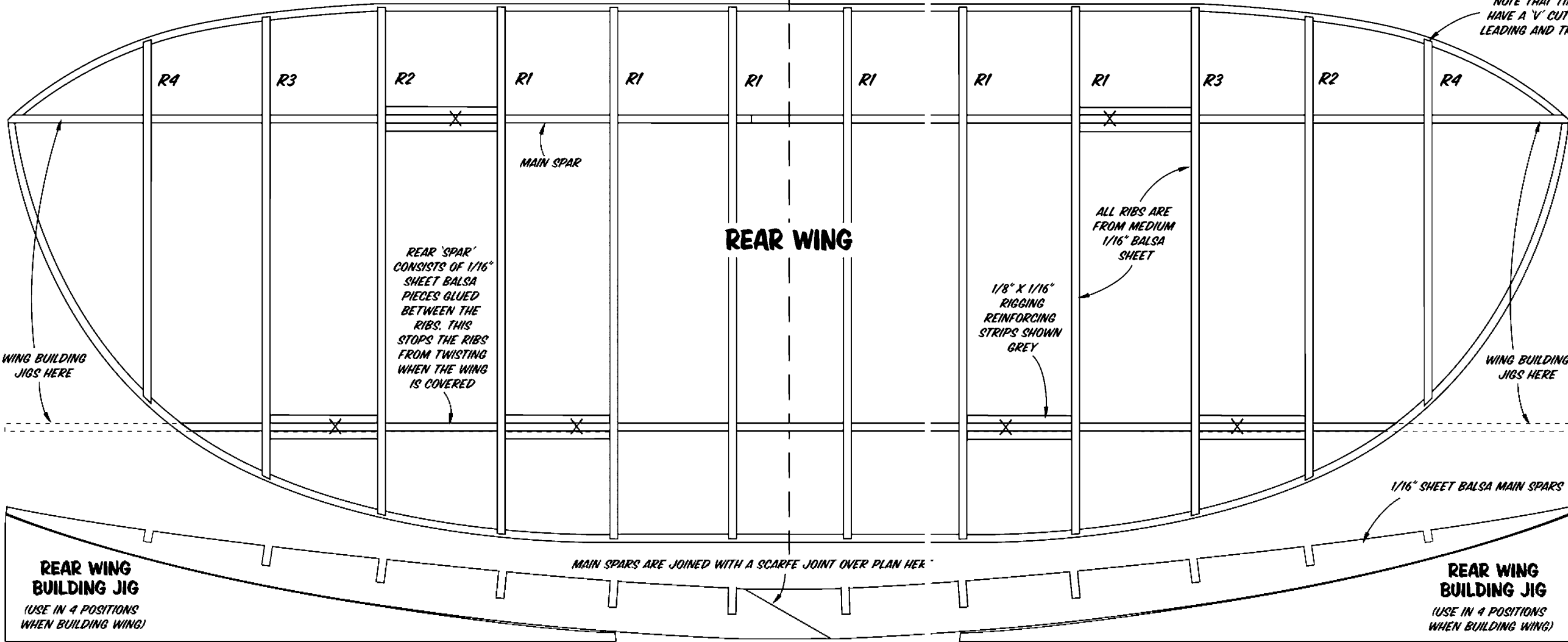
READ THE INSTRUCTIONS!



JOIN FRONT WING SPARS OVER THIS PLAN



SMALL LENGTH OF ALLOY TUBE BOUND TO REAR OF SPAR TO TAKE WIRE WING STAY



NOTE THAT TIPS OF RIBS HAVE A 'V' CUT TO RECEIVE LEADING AND TRAILING EDGES

WING BUILDING JIGS ARE PINNED TO THE BUILDING BOARD DIRECTLY UNDER THE FRONT AND REAR SPAR POSITIONS

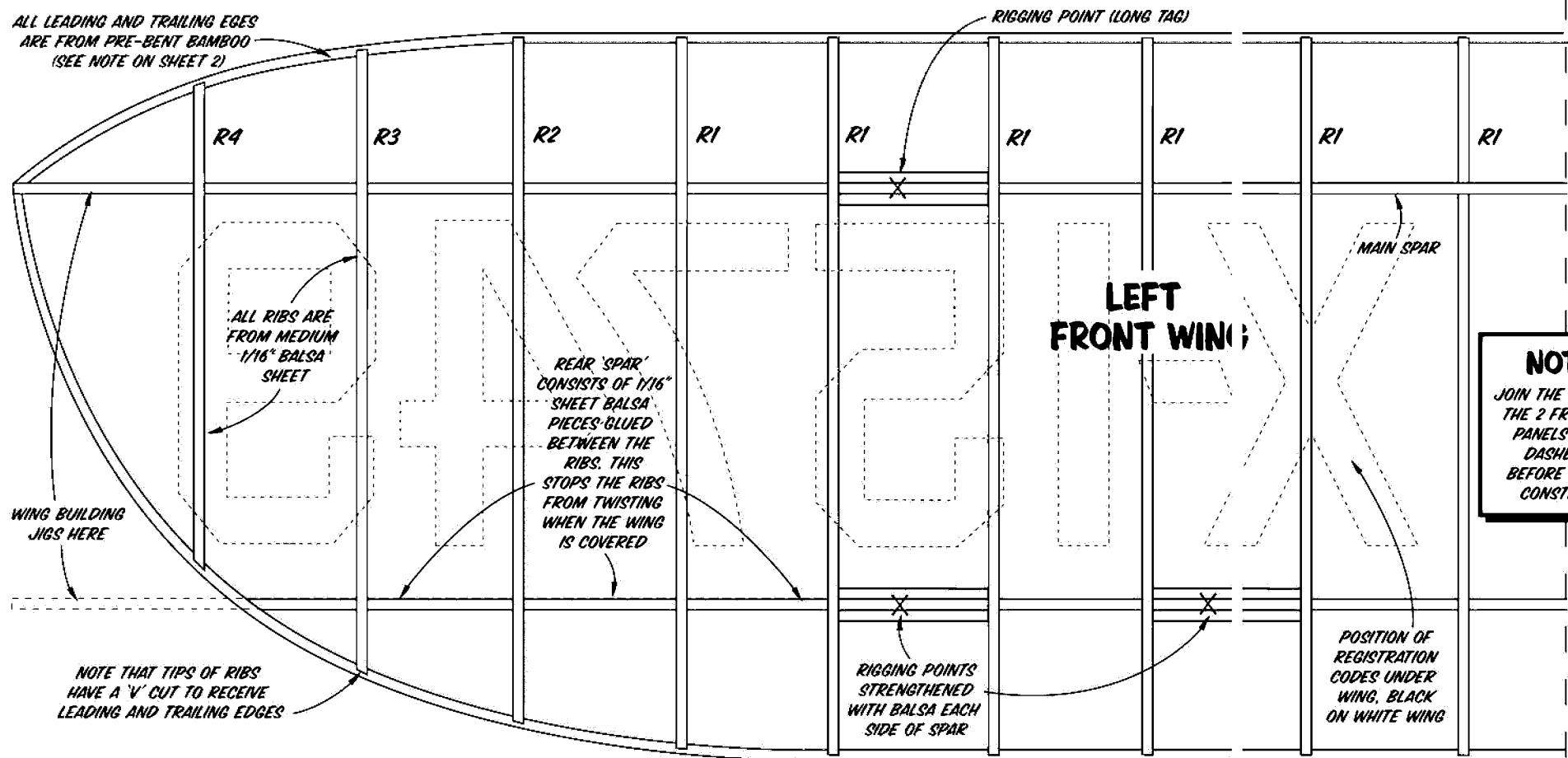
WING OUTLINES ARE THINNED BAMBOO SKEWERS, HEATED WITH SOLDERING IRON TO OBTAIN CORRECT CURVES

OF 3 SHEETS **2** 1/12 SCALE MIGNET POU-DU-CIEL

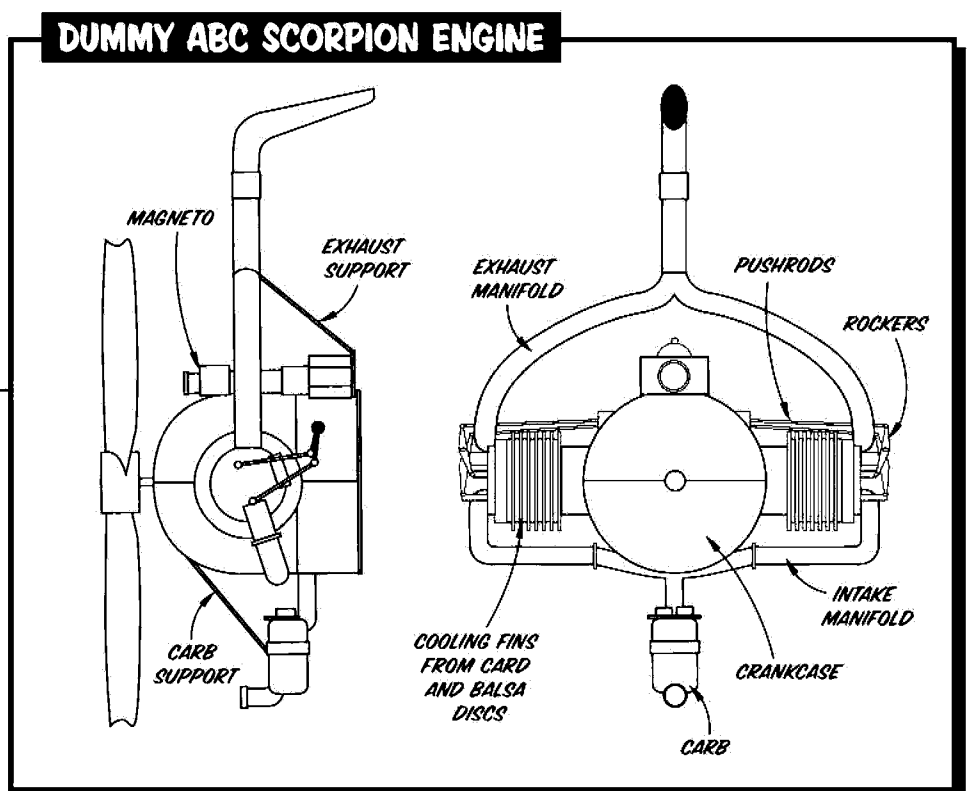
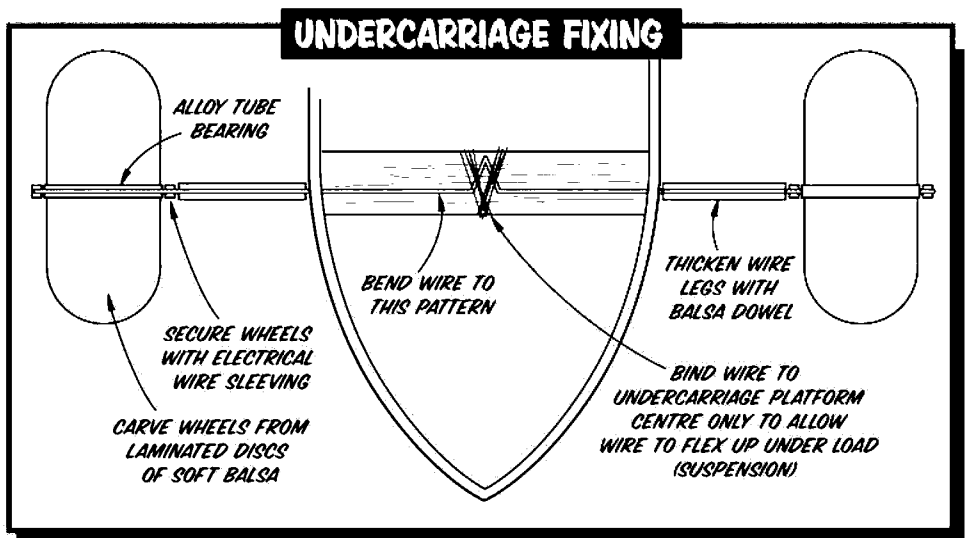
THE FLYING FLEA

DESIGNED & DRAWN BY *Richard Crossley*

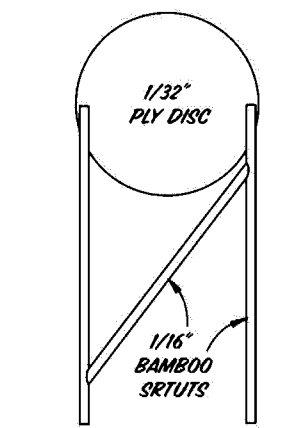
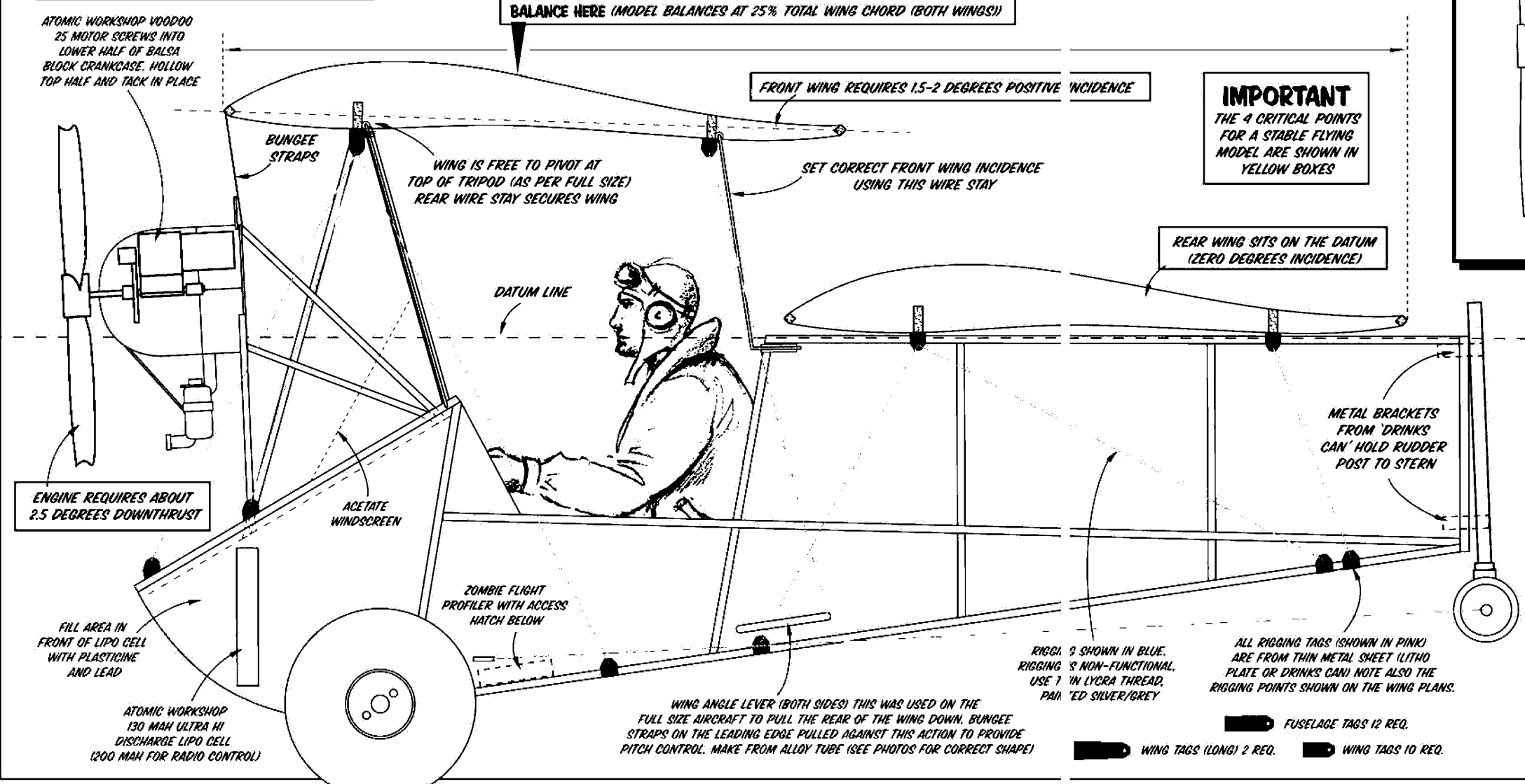
ALL LEADING AND TRAILING EDGES ARE FROM PRE-BENT BAMBOO (SEE NOTE ON SHEET 2)



NOTE...
JOIN THE PLANS FOR THE 2 FRONT WING PANELS ON THIS DASHED LINE BEFORE STARTING CONSTRUCTION



RIGGING AND FLYING ANGLES



MAIN ENGINE SUPPORT
BUILD OVER THIS PLAN. ASSEMBLE TO TOP OF NOSE IN HOLES SHOWN IN N1/N2. NOTE THE 2 EXTRA STEADYING STRUTS THAT ARE REQUIRED EACH SIDE TO COMPLETE THE SUPPORT (SEE SIDE VIEW) USE EPOXY GLUE ON ALL BAMBBOO JOINTS.

OF 3 SHEET 3 **1/12 SCALE** MIGNET POU-DU-CIEL

THE FLYING FLEA
DESIGNED & DRAWN BY *Richard Crossley*