

## CITABRIA

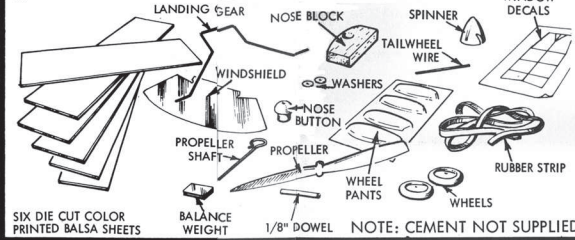
20" WINGSPAN FLYING MODEL

Design, art, plan, engineering  
and original model by -

*Jim Newman*

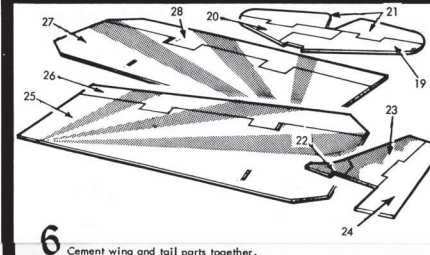
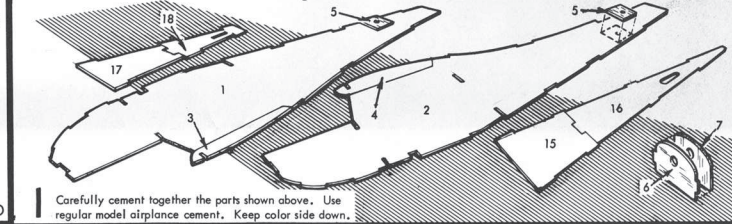
MIDWEST PRODUCTS CO. HOBART, IND.

### IDENTIFY AND CHECK YOUR PARTS :

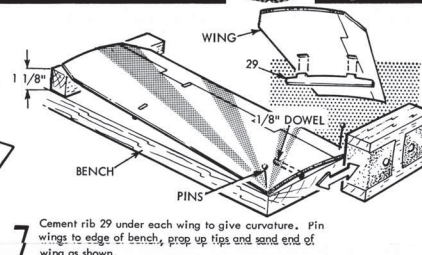


SIX DIE CUT COLOR PRINTED BALSA SHEETS NOTE: CEMENT NOT SUPPLIED

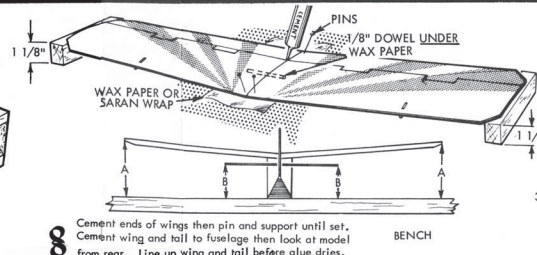
### Follow these steps for EASY BUILDING!



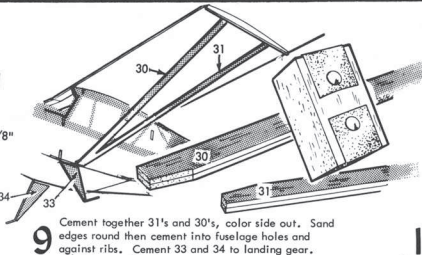
6 Cement wing and tail parts together.



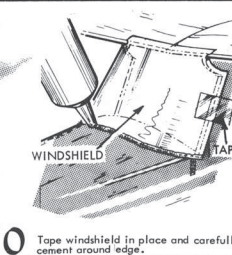
7 Cement rib 29 under each wing to give curvature. Pin wings to edge of bench, prop up tips and sand end of wing as shown.



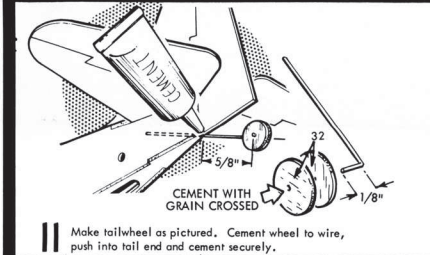
8 Cement ends of wings then pin and support until set. Cement wing and tail to fuselage then look at model from rear. Line up wing and tail before glue dries.



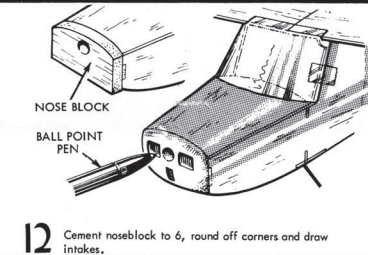
9 Cement together 31's and 30's, color side out. Sand edges round then cement into fuselage holes and against ribs. Cement 33 and 34 to landing gear.



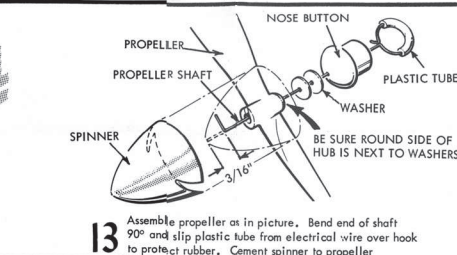
10 Tape windshield in place and carefully cement around edge.



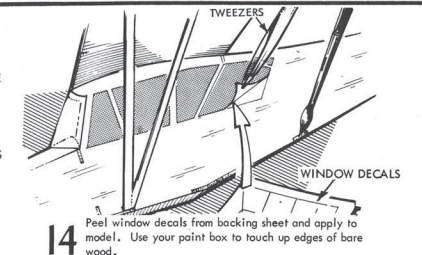
11 Make tailwheel as pictured. Cement wheel to wire, push into tail end and cement securely.



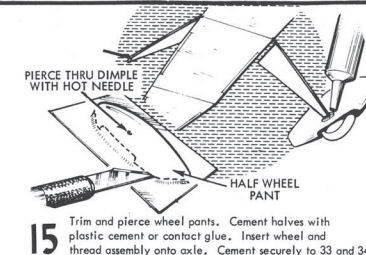
12 Cement noseblock to 6, round off corners and draw intakes.



13 Assemble propeller as in picture. Bend end of shaft 90° and slip plastic tube from electrical wire over hook to protect rubber. Cement spinner to propeller

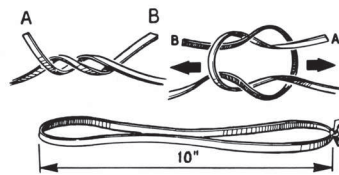


14 Peel window decals from backing sheet and apply to model. Use your paint box to touch up edges of bare wood.



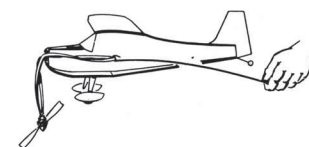
15 Trim and pierce wheel pants. Cement halves with plastic cement or contact glue. Insert wheel and thread assembly onto axle. Cement securely to 33 and 34.

### PREPARING THE RUBBER MOTOR



1 Join ends of rubber with square knot to make loop.

2 Put small drop of castor oil in palm of hand. Rub motor between hands KEEPING OIL OFF KNOT or it may slip open.

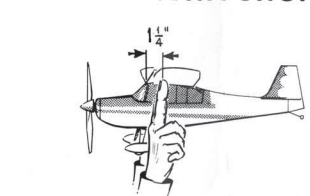


3 Use florist's wire or solder to pull rubber through model. Keep knot to rear.

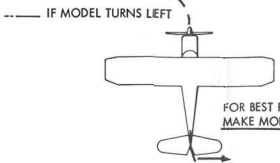


4 Before unhooking wire, push dowel through fuselage, making sure it goes through rubber loop.

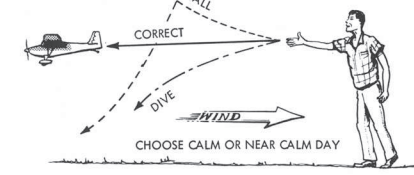
### FLYING INSTRUCTIONS



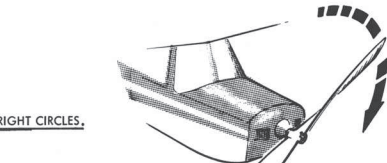
1 Balance model on fingertips. Add modeling clay under nose or tail until it stays level.



2 Launch level and smoothly. If model climbs sharply then dives (stalls), bend rear edge of stabilizer down a little or put clay under nose. If it dives, bend it up or put clay under tail. Continue until smooth glide is obtained.



3 Control turning by bending rudder. Aim for a wide circle.



4 Turn propeller in direction shown to wind up rubber 150 turns for average 10 second trip.

### HII

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Good luck and happy flying.

*Frank G. Gorch*



CARDINAL



BIRD-DOG

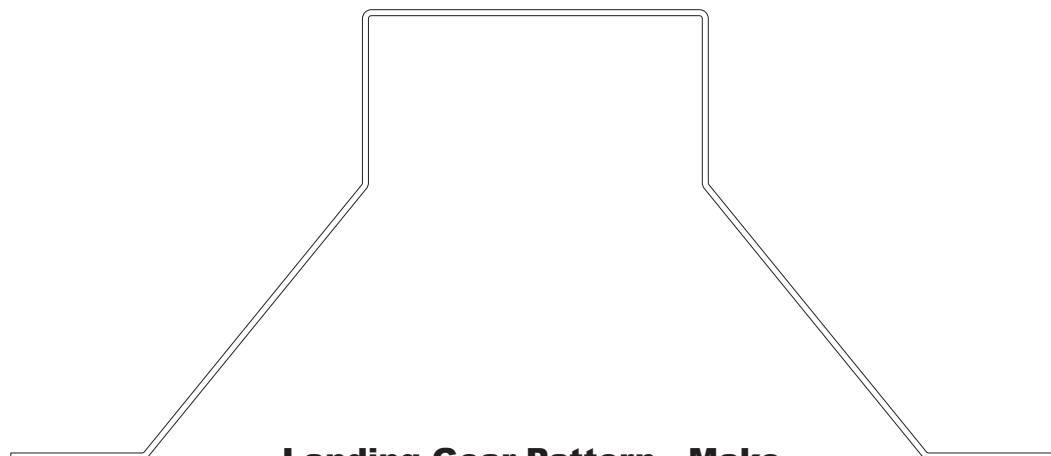
MIDWEST PRODUCTS CO.

PIPER CUB

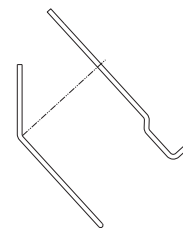
Please send me your illustrated catalog of models and accessories. I enclose 25¢ to cover cost.

Name \_\_\_\_\_ Address \_\_\_\_\_

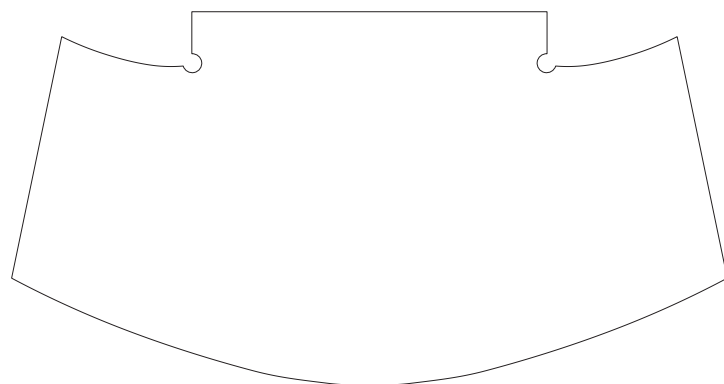
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_



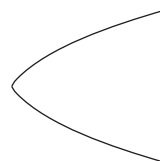
**Landing Gear Pattern - Make  
from .032 music wire. Use 1" Wheels**



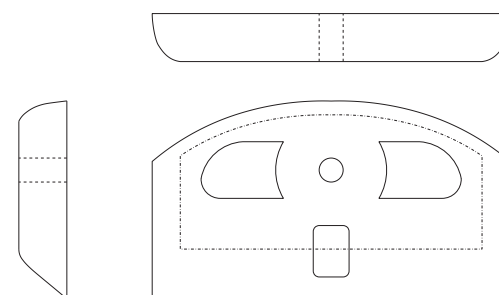
**Tail Wheel Leg  
Pattern - Make from  
.025 music wire**



**Windshield Pattern**



**Spinner**

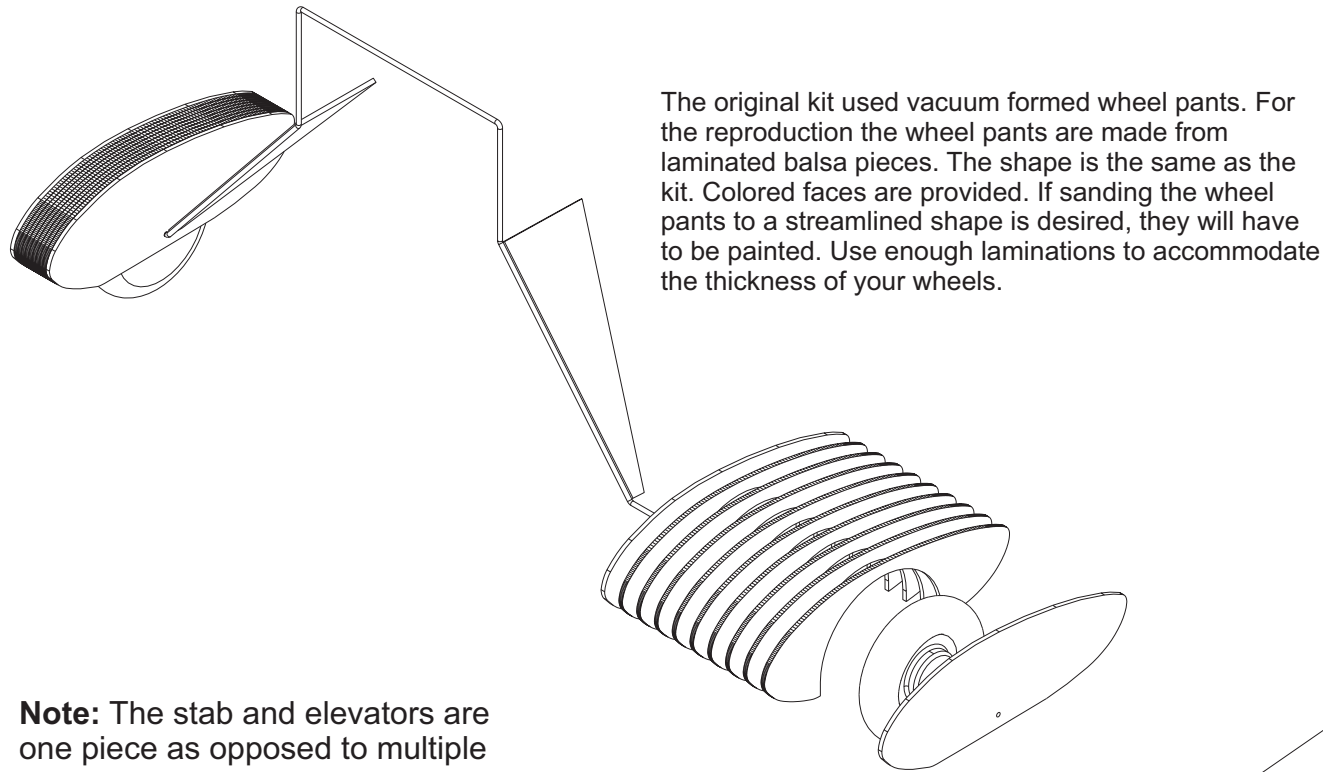


**Nose Block - Make from 1/4" balsa**

**Midwest Citabria**



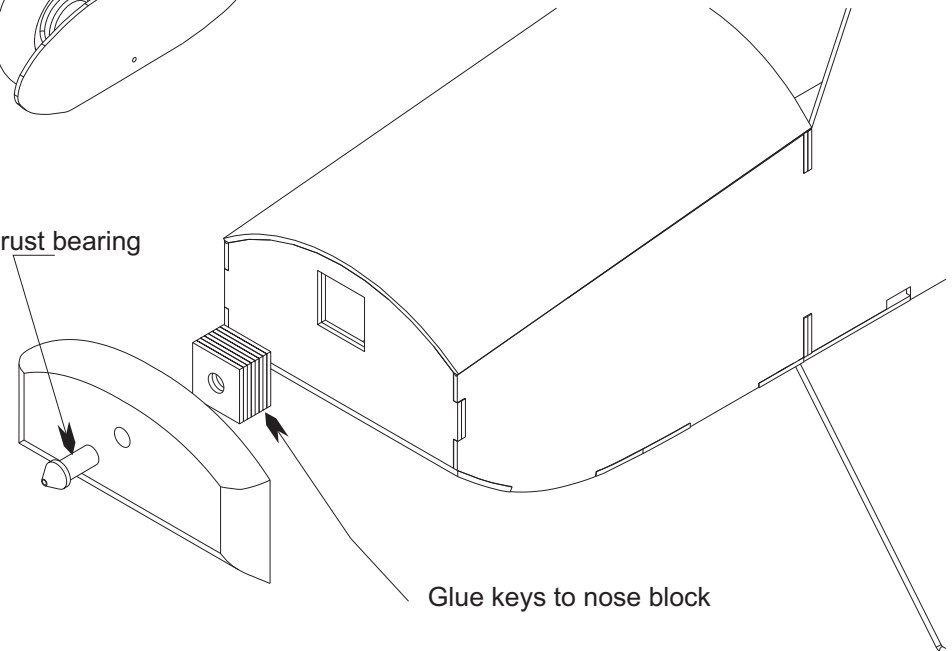
# Modifications to Original



**Note:** The stab and elevators are one piece as opposed to multiple pieces as shown on the plan. This is also true for the fin/rudder. The small piece that completes the dorsal fin area has been retained.

The nose block is removable for stretch winding as opposed to the fixed block shown on the kit plan. The nose block is made from 1/4" balsa. Glue the laminated key block to the rear face of the nose block.

Peck thrust bearing



## Midwest Citabria

# CITABRIA

MIDWEST PRODUCTS CO.

22 Wingspan  
Formed wire landing gear  
Propeller, wheels  
and Decals included

PRINTED & DIE CUT WOOD



**Note:** The kit box states the wing span is 22 inches. It is actually 20 inches.