

Cleveland “Quickie” Bonanza

This plan package is not a 100% copy of the original kit. As you make your way through the instructions you will see the differences. Here's just a few of them:

- The paint scheme on the original was too psychedelic for my taste so I gave the model a more modern look. The V-Tail is printed on both sides.
- The original kit used 1/16" balsa. This plan package uses 1/32" balsa. Certain formers such as the fuselage formers are created by bonding two duplicate formers together. These duplicate formers are laid out in a cross-grain fashion to provide maximum strength when bonded together. Use spray glue such as 3M Super 700 available at most hardware stores.
- Instructions for a removable nose piece are included. 1/8" Tan II rubber is recommended for the motor but any size can be used based on the builder's desire.
- The wing is two-piece instead of one-piece like the original. They attach to the sides of the fuselage. Ribs are provided to produce a small airfoil unlike the original wing which is flat.
- The original kit had landing gear mounted in the fuselage like a taildragger. I redesigned this version with the correct tricycle configuration.
- Many pieces are slightly oversized to allow for custom fits.
- The original instructions were very vague. In this plan package they are broken down step-by-step.

The complete original instructions are located at the end and include basic tips on how to fly the model. I hope you enjoy it. If you find any errors with the plan package I would greatly appreciate knowing about them. Please contact me at notsginivil40@yahoo.com

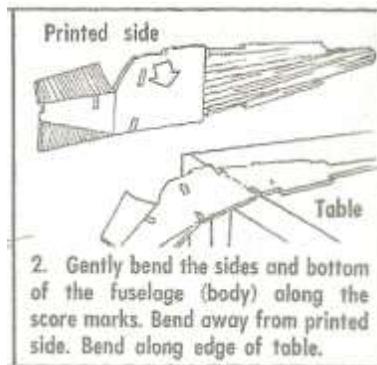
Cleveland “Quickie” Bonanza

The original step-by-step instructions are presented here with notes about optional assembly procedures. The additional artwork is from a redesigned Cleveland Quickie Luscombe Sedan kit drawn by Paul Bradley of Parmodels.com. Visit his website to see some great plans for other kits.



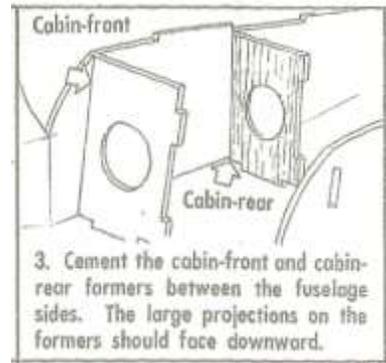
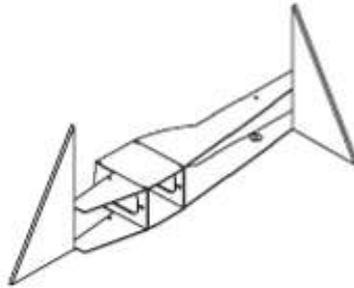
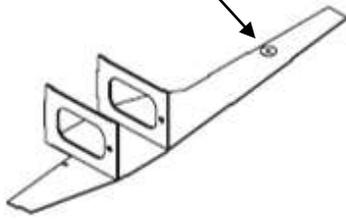
This plan package is not die-cut like the original kit. It is highly recommended that a sharp Xacto® blade be used at all times. Don't skimp on this or you will tear the wood when cutting it out. Off-brand blades are not as good as the Xacto® brand. When the blade starts to drag, change it out for a new one. It is also best to **NOT** cut on the lines. Cut the pieces out oversized and sand down to the line. This is especially important when cutting out notches.

I prefer to use Loctite® brand Super Glue. Again, don't skimp on the brand name. Off-brand cements are inconsistent.

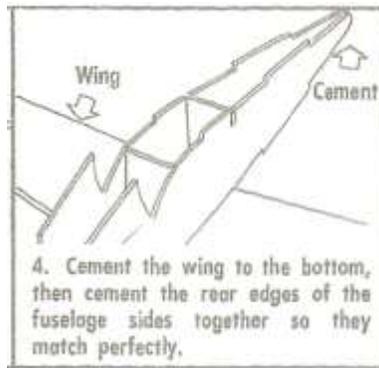


This step was necessary because the original kit used 1/16" balsa. Since this plan package uses 1/32" balsa, **DON'T** try to bend the sides prior to assembly. The 1/32" balsa will form to the contour just fine.

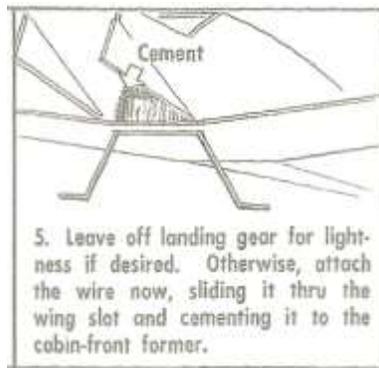
Add motor peg support



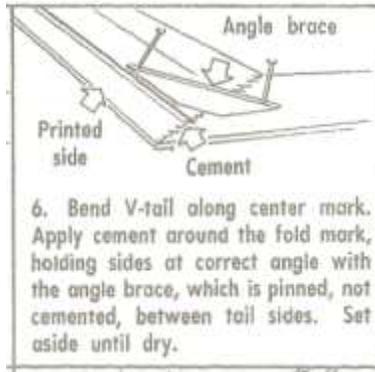
When gluing the front and rear cabin formers in place, lay one side of the fuselage on a flat surface. Brace the formers with something that will hold them at 90 degrees (straight up) and then add cement. When dry, attach the other half of the fuselage as shown. Add motor peg supports at this point.



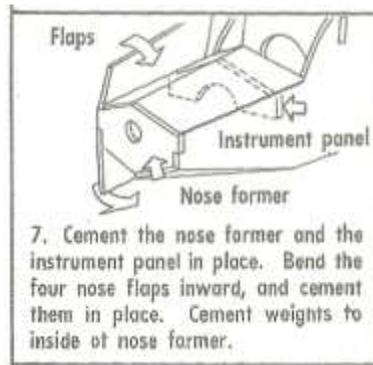
Wing attachment is covered in a later step. When joining the rear edges of the fuselage together try to keep the fuselage straight as possible.



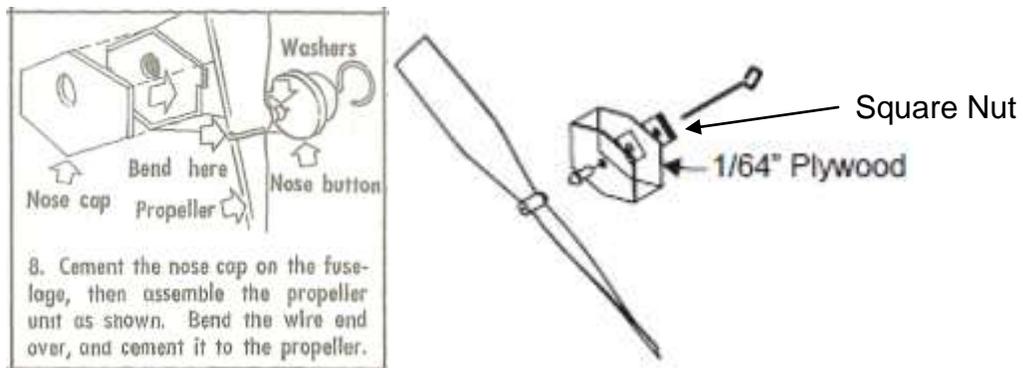
Landing gear installation will be explained in a later step.



V-Tail pieces are single pieces in this kit. When bonding the two together, use the angle brace as shown.

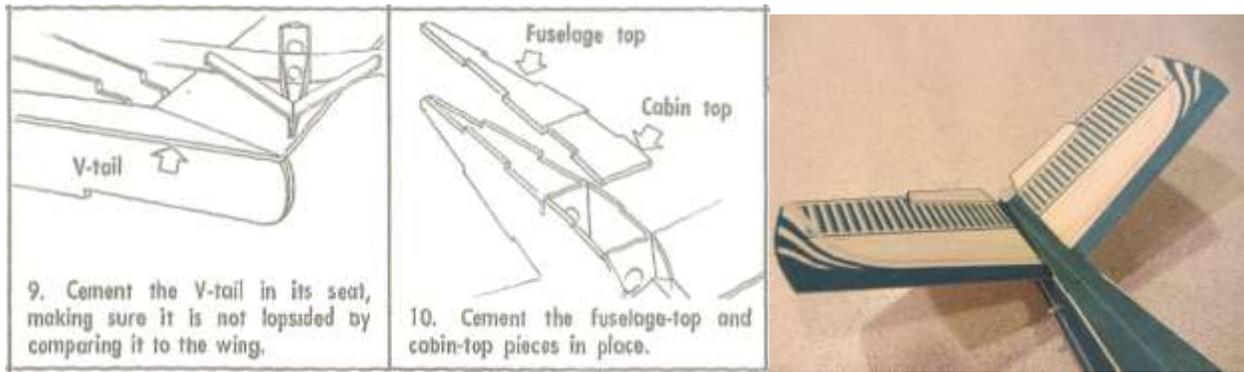


The original kit had each half of the nose top and bottom cowl included as part of each fuselage side. This has been replaced with a one-piece top and bottom cowl that are oversized so they can be trimmed to fit. Install the top cowl at this point by trimming to fit as needed. A penny should be cemented inside the nose to provide nose weight. The nose former provided in this plan package is intended for a removable nose piece.

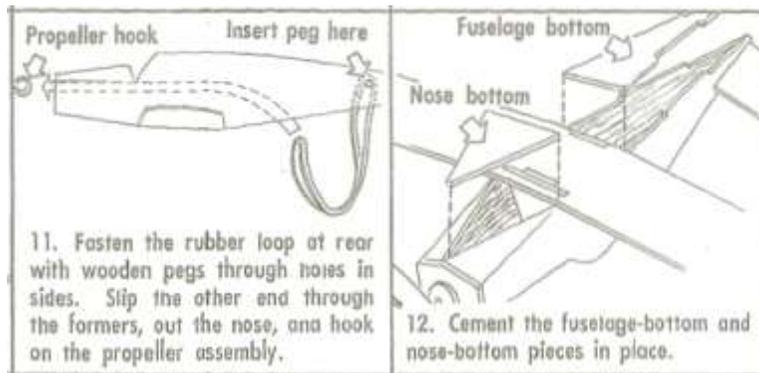


In lieu of step 8, refer to the diagram on the right. For the removable nose piece assembly, use the printed piece as a pattern to make up a backing piece from 1/64" plywood. A Peck thrust bearing for a 1/32" prop shaft is recommended. Use a prop in the 5 1/2" range.

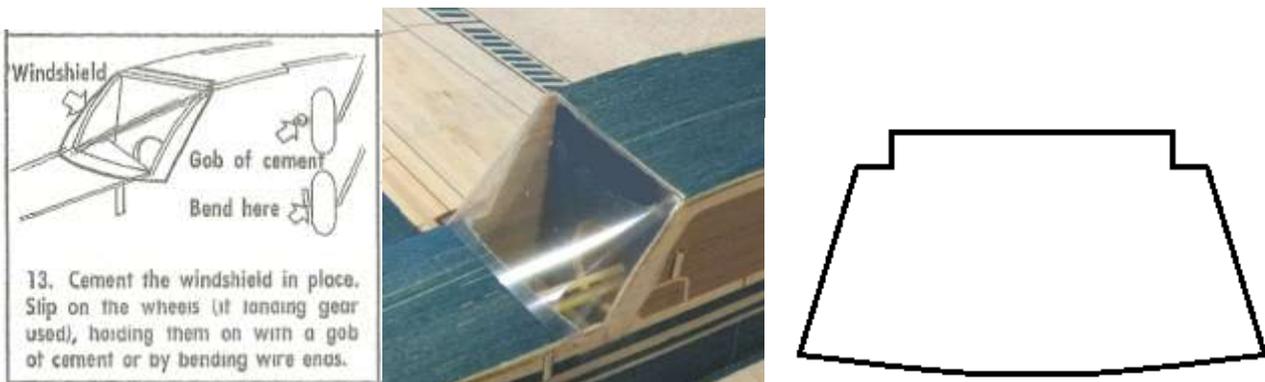
The nose former has a diamond shape hole in the center. I recommend bonding a square nut to the rear of the nose piece to be used as a plug to fit into the diamond shape hole.



Steps 9 and 10 are best shown in the picture to the right. As described by the instructions, the V-Tail is attached before adding the fuselage top. Also, the original kit used two pieces for the fuselage top and cabin top. In this reproduction, these have been combined into one piece.



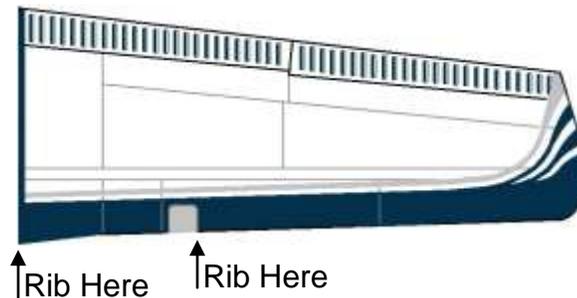
Step 11 shows installation of the rubber motor. It is recommended to use a hollow aluminum tube instead of a wood dowel peg. The fuselage bottom in this version extends to the foremost fuselage former and is attached in a similar fashion as shown in step 12 with the exception of the wing which is installed later. The nose bottom cowl will require trim fitting as it is shaped around the curve of the nose piece.



A pattern for the windshield is shown to the right. Cut the windshield out oversized and trim for a custom fit. The windshield for the model shown was attached first at the cabin top, followed by attachment at the left and right sides. No glue was used across the nose. Wheel attachment is shown in a later step.

Two-Piece Wing Assembly Instructions

The original kit used a one-piece, flat wing with no airfoil. This plan package utilizes a two-piece wing with ribs added to create a small airfoil.



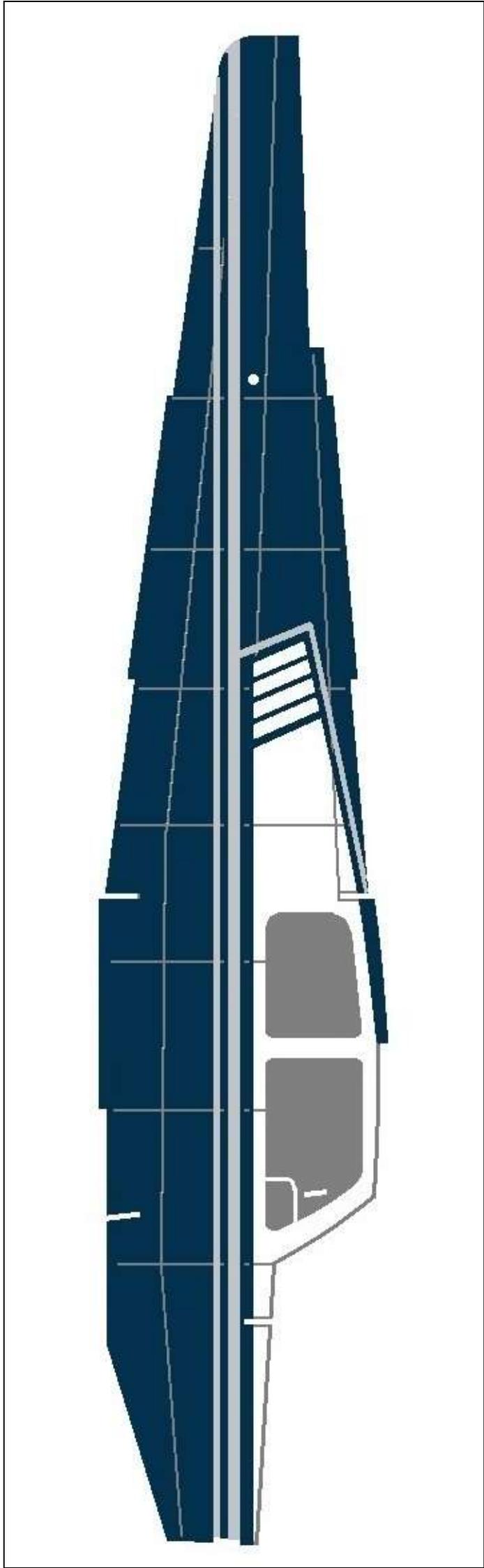
Glue a rib to the root end of each wing panel and at the mid-wing point shown in the diagram above. Place a block under each wing that raises the tip to one inch. Using the edge of a work bench as a guide, sand the wing panel root rib flat. This will provide a one inch dihedral for each wing. The wings are now ready to be attached to the fuselage.

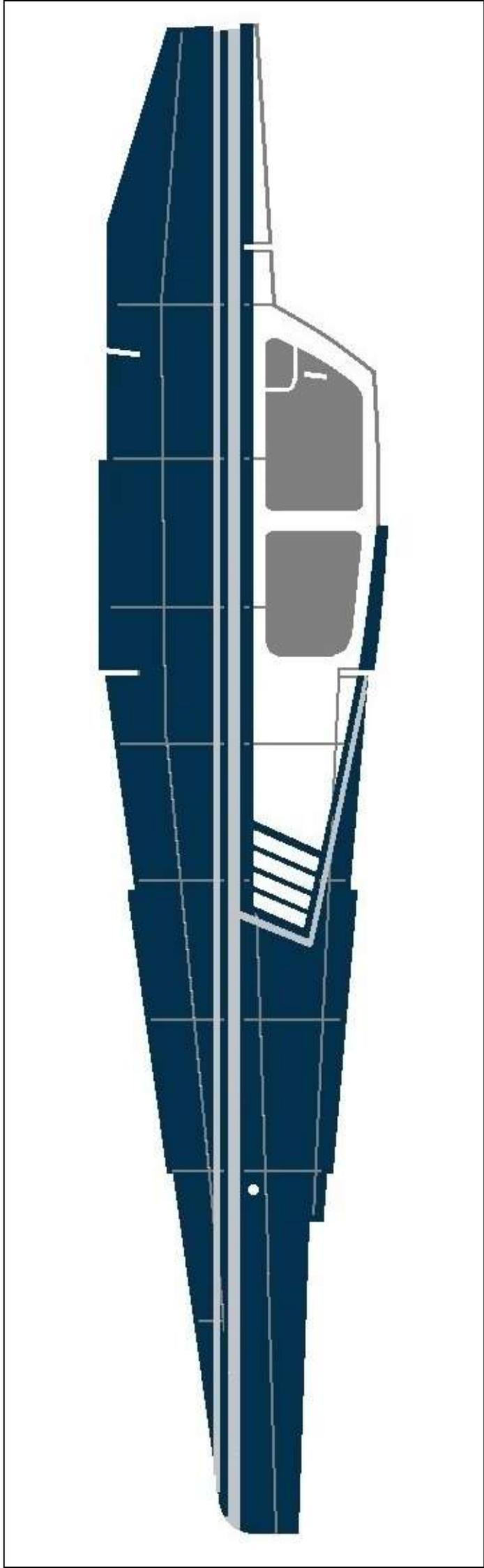
Wheel Assembly Instructions

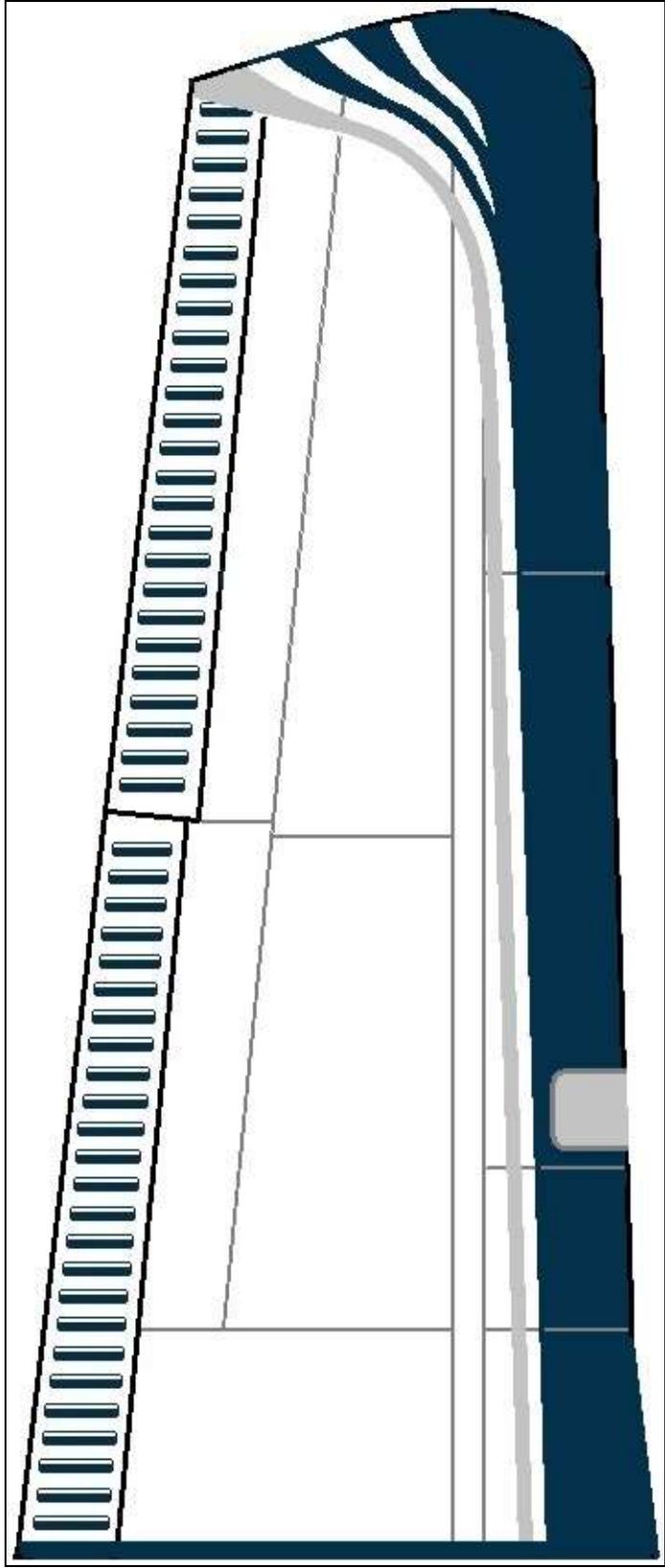


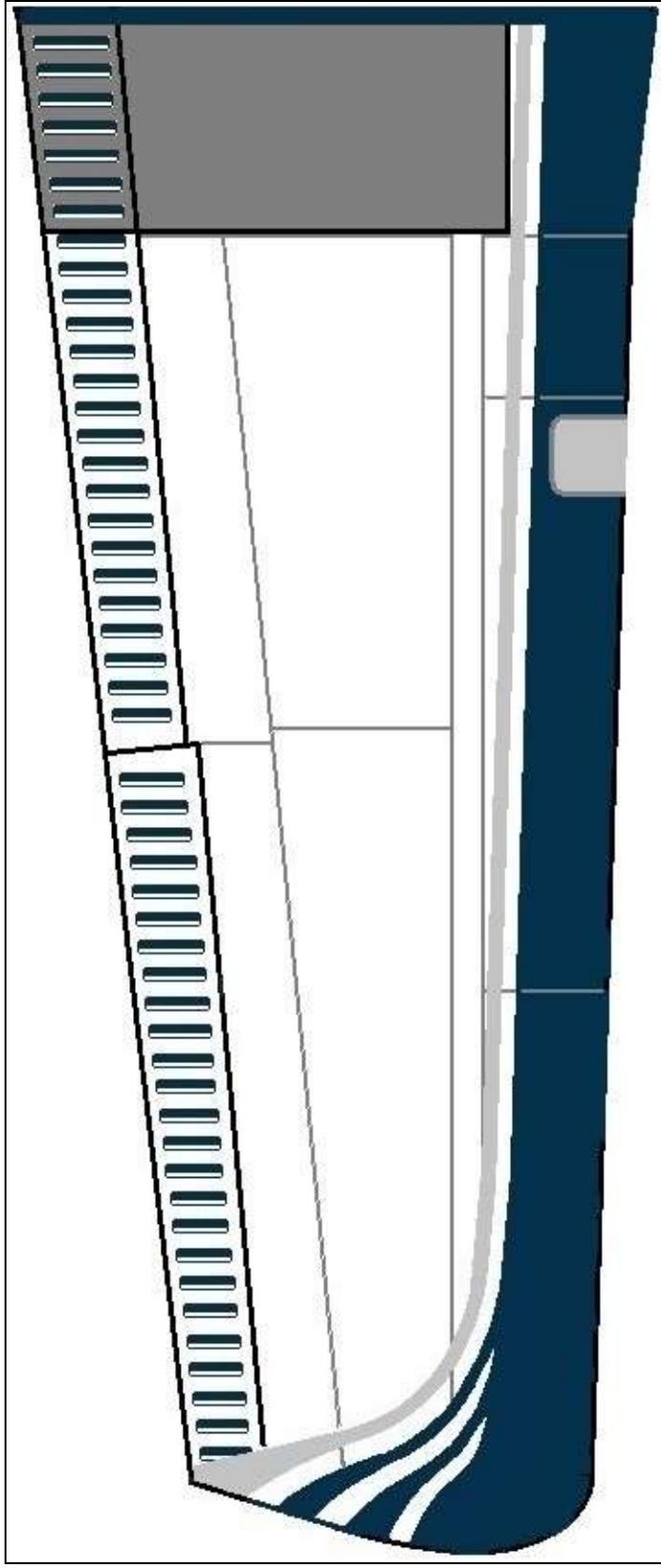
The wheel installation shown is one option. You may have a more desirable setup. The nose wheel is attached directly to the bottom of the nose. This was aided by bending a triangle shape to the wire where it attaches. The main landing gear is attached to the mid-wing rib which incorporates the shape of the gear door. Again, a triangle shape is bent into the wire to aid attachment to the wing.

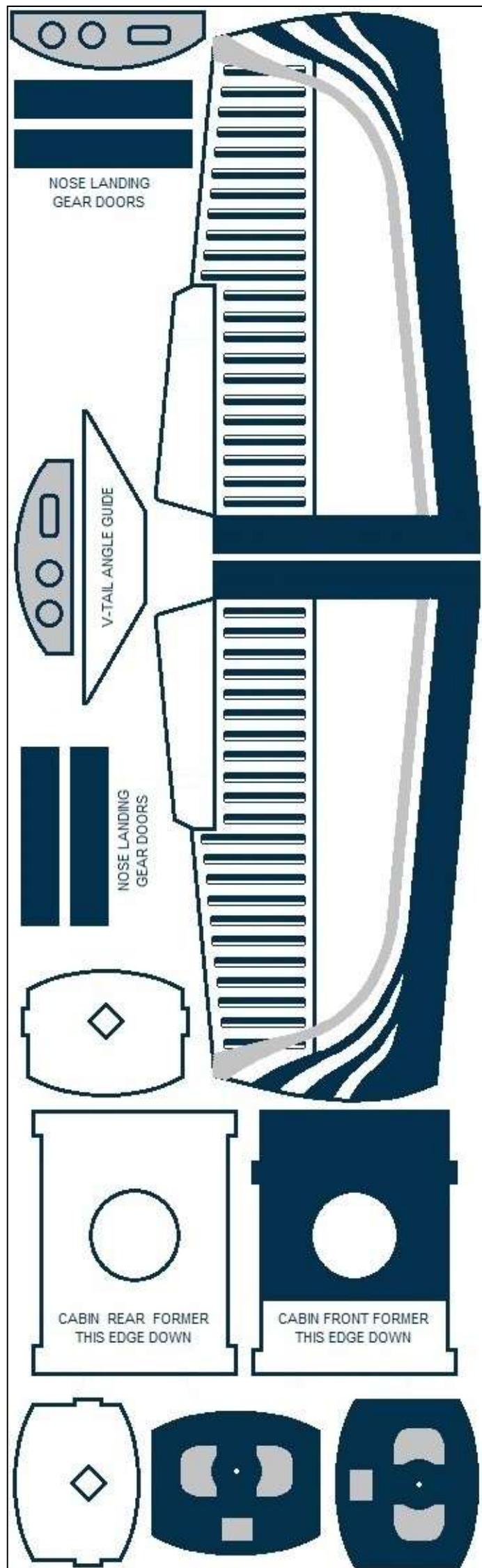
No pattern has been included since the pictures are pretty straight forward. The model shown used 1" main wheels and a $\frac{3}{4}$ " nose wheel.



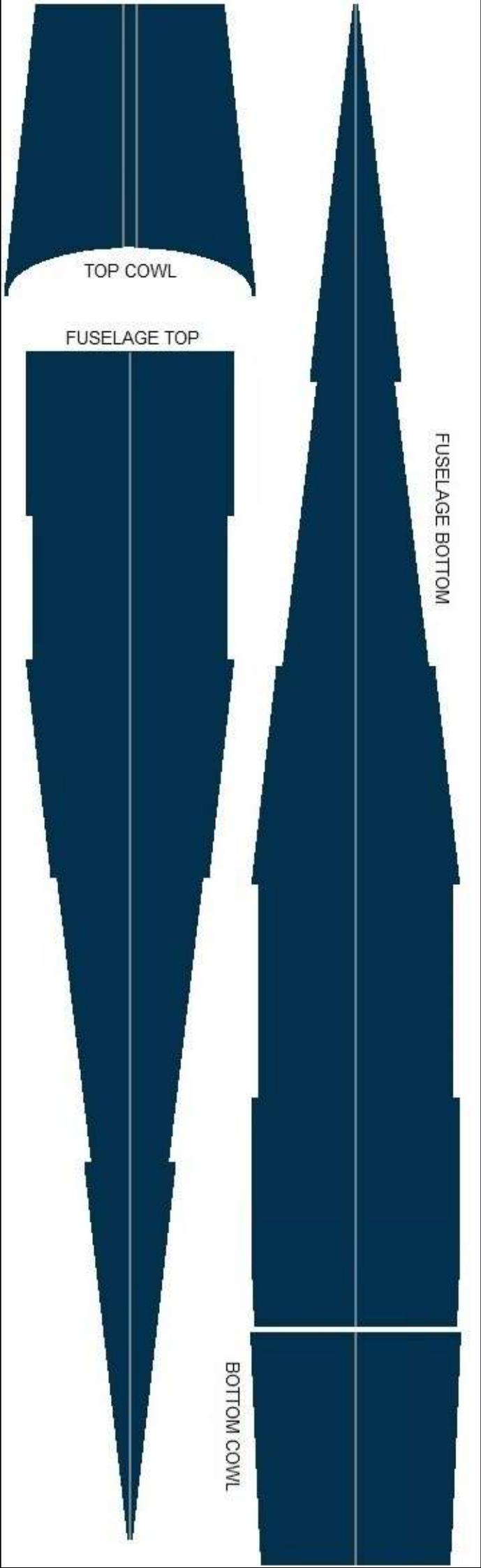


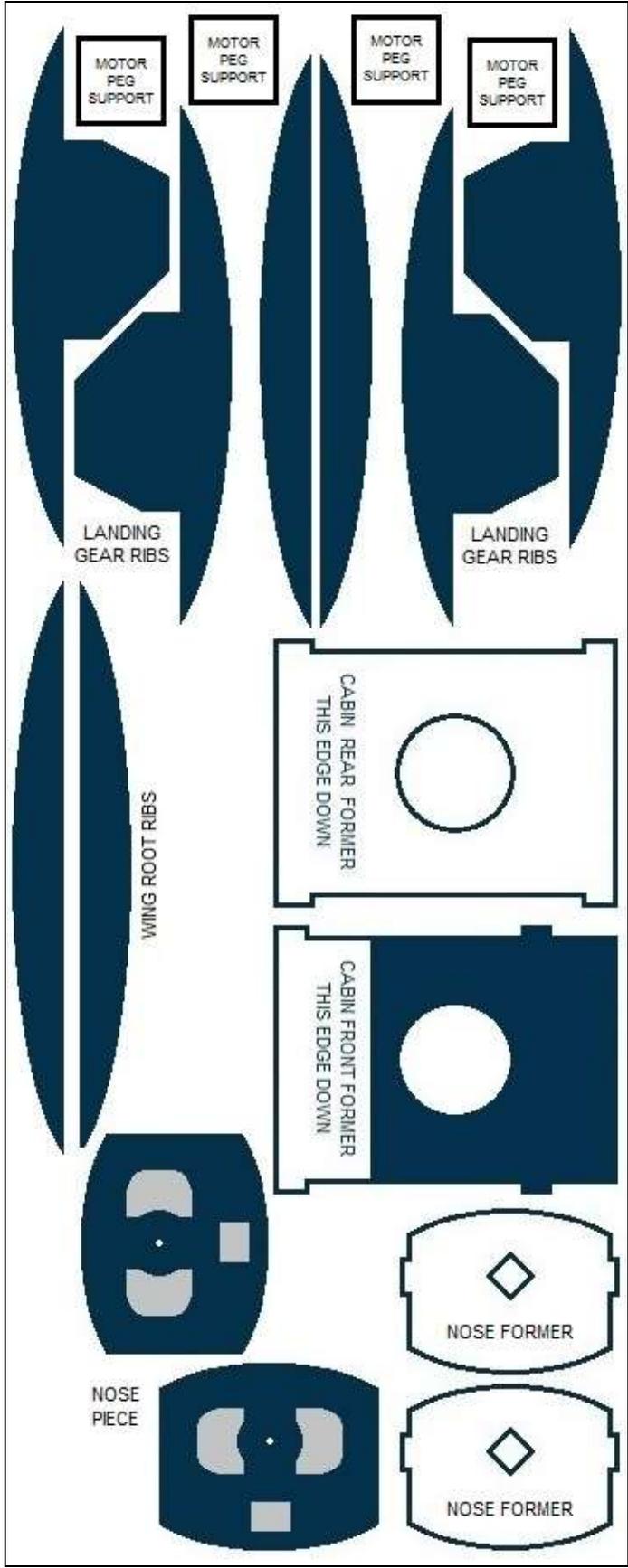










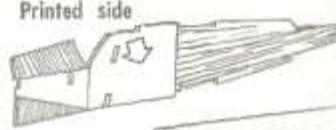


Follow the directions step by step. Use a fast-drying model airplane or household cement for assembly. A few pins and some string are useful in holding parts together until the cement dries.



1. Remove all the parts carefully from the diecut sheets.

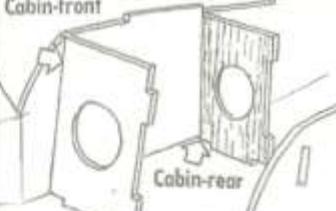
Printed side



Table

2. Gently bend the sides and bottom of the fuselage (body) along the score marks. Bend away from printed side. Bend along edge of table.

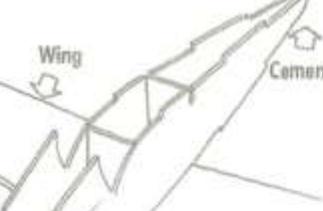
Cabin-front



Cabin-rear

3. Cement the cabin-front and cabin-rear formers between the fuselage sides. The large projections on the formers should face downward.

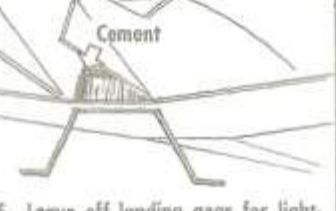
Wing



Cement

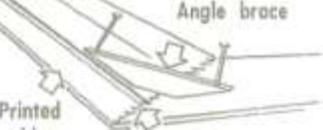
4. Cement the wing to the bottom, then cement the rear edges of the fuselage sides together so they match perfectly.

Cement



5. Leave off landing gear for lightness if desired. Otherwise, attach the wire now, sliding it thru the wing slot and cementing it to the cabin-front former.

Angle brace



Printed side

Cement

6. Bend V-tail along center mark. Apply cement around the fold mark, holding sides at correct angle with the angle brace, which is pinned, not cemented, between tail sides. Set aside until dry.

Flaps

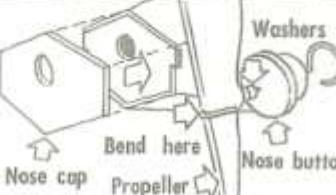


Instrument panel

Nose former

7. Cement the nose former and the instrument panel in place. Bend the four nose flaps inward, and cement them in place. Cement weights to inside of nose former.

Washers



Bend here

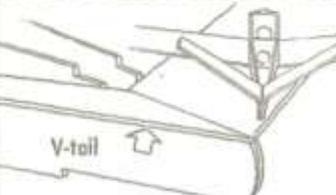
Nose cap

Propeller

Nose button

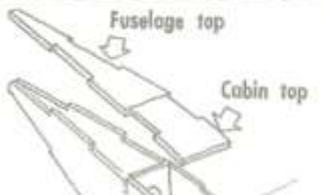
8. Cement the nose cap on the fuselage, then assemble the propeller unit as shown. Bend the wire and over, and cement it to the propeller.

V-tail



9. Cement the V-tail in its seat, making sure it is not lopsided by comparing it to the wing.

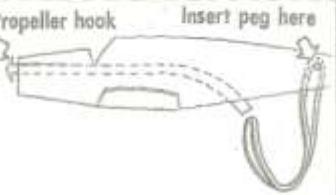
Fuselage top



Cabin top

10. Cement the fuselage-top and cabin-top pieces in place.

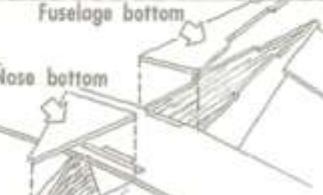
Propeller hook



Insert peg here

11. Fasten the rubber loop at rear with wooden pegs through holes in sides. Slip the other end through the formers, out the nose, and hook on the propeller assembly.

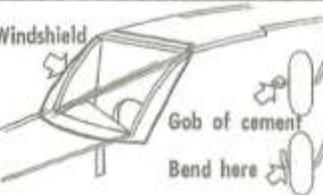
Fuselage bottom



Nose bottom

12. Cement the fuselage-bottom and nose-bottom pieces in place.

Windshield

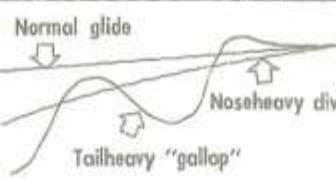


Gob of cement

Bend here

13. Cement the windshield in place. Slip on the wheels (if landing gear used), holding them on with a gob of cement or by bending wire ends.

Normal glide



Noseheavy dive

Tailheavy "gallop"

14. Glide model gently from shoulder height, aiming it slightly downward. Weight the nose or tail if it seems off balance according to characteristic flight paths shown above.

Wood chip

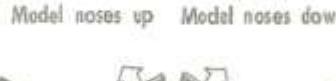


15. Wind the propeller 25-50 turns for power testing, and launch it straight ahead. Gradually increase the winds up to 150-200. If the model stalls under power, cement a small wood chip behind the nose button as shown, to direct the 'pull' downward.

Model noses up



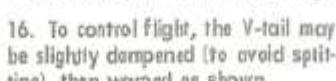
Model noses down



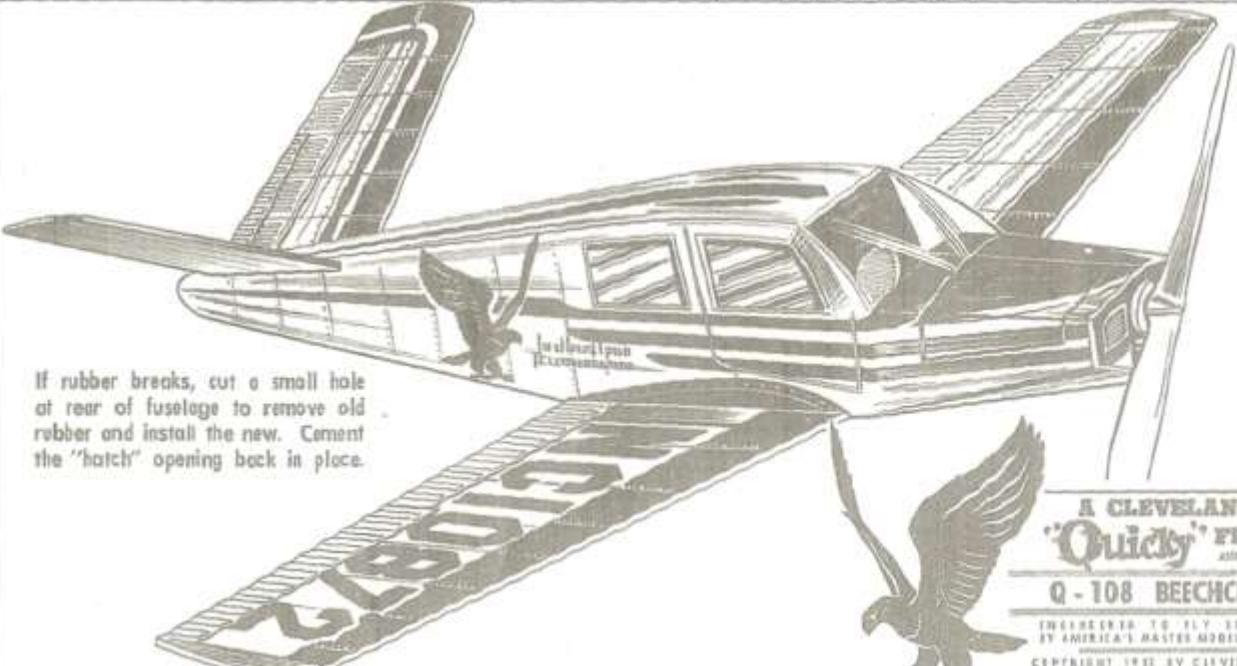
Model turns left



Model turns right



16. To control flight, the V-tail may be slightly dampened (to avoid splitting), then warped as shown.



If rubber breaks, cut a small hole at rear of fuselage to remove old rubber and install the new. Cement the "hatch" opening back in place.

A CLEVELAND-DESIGNED
"Quicky" FLYING MODEL
ASSEMBLE IT IN ONLY 30 MINUTES
Q-108 BEECHCRAFT BONANZA
ENGINEERED TO FLY SEVERAL HUNDRED FEET
 BY AMERICA'S MASTER MODEL DESIGNERS "SINCE 1917"
 COPYRIGHT 1952 BY CLEVELAND MODEL & SUPPLY CO.
 CLEVELAND 2, OHIO, U. S. A.

**18"
BONANZA**



**NO CUTTING, NO COVERING,
NO PAINTING TO DO
JUST ASSEMBLE AND FLY!**

A CLEVELAND

"Quicky"

**FLIGHT
ENGINEERED
MODEL**

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