Comet Stinson Reliant
For Radio Control
Wingspan - 25"

CAD Drawing by Paul Bradley Sheet 1 of 12
Wing struts are 1/16" x 1/8" strip stock sanded to a streamline cross section.

Entry step is made from rounded 1/16" square stock build over the plan. One goes on each side.

1/16" X 1/8" Balsa strip stock

Two laminations of 1/32" balsa. Use the supplied template when cutting the two laminations. Apply a thin layer of glue between laminations.

Cowl Assembly

Side Windshield Pattern

Wingstrut

1/16" Balsa filler in this area to provide support for landing gear legs.

The cowl nose ring is made from two layers of 1/8" balsa and one layer of 1/64" plywood in the arrangement shown. Do not remove the center plug from the plywood piece until after shaping. Use the center hole in the plywood piece to secure the assembly in a Dremel tool or electric drill. Turn the assembly and shape the radius. After shaping the plywood center plug can be removed.

Make cowl bumps by cutting a piece of 3/16" balsa 5" long by the length of the cowl bump wide. Sand this strip to shape of the cowl bump as viewed from the top. Sand one end of the now streamlined strip of balsa to the shape of the cowl bump as viewed from the side. After sanding, cut off the sanded end at the depth of the cowl bump. Repeat this process until you have 18 cowl bumps fabricated. The template provided on the plan can be used to locate each cowl bump. Place the template so the seam is at the quarter point on the side of the cowl.

Cowl bump template seam goes here.

Engine exhaust stack. One each side made from 1/8" balsa.

1/16" X 1/8" Balsa strip stock

ParkZone Micro P-51 Motor/Gear Drive

1/16" X 1/8" Balsa strip stock

1/16" Balsa filler in this area to provide support for landing gear legs.

Two laminations of 1/32" balsa. Use the supplied template when cutting the two laminations. Apply a thin layer of glue between laminations.

1/16" X 1/8" Balsa strip stock

Cowl Assembly

Inches

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CAD Drawing by Paul Bradley   Sheet 3 of 12

INCHES
Landing gear pattern. Make from .032 piano wire. Bend at the location shown to conform to the side view pattern.

See fuselage assembly page for information on using the nose assembly jig.

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CAD Drawing by Paul Bradley   Sheet 4 of 12
Wing strut - make from 1/16"x1/8" strip stock. Sand to streamline cross section and trim to fit.

Wing strut mount pad

3/4" Dihedral under each wing tip
1/16" Square Balsa

1/16"x1/8" Balsa strip stock

1/16" Square Balsa

1/16"x1/8" Balsa strip stock

3/4" Dihedral under each wing tip

Spars are 1/16"x1/8" balsa

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Step 1. Assemble each side over the plan. Do not include the structure forward of the cabin.

Step 2. Using formers 5 through 8 assemble the sides as shown. Make sure everything is square.

Step 3. Sand the rear of the fuselage sides on the inside face to a taper so when joined the thickness will be 1/16”. Glue the fuselage sides together at the rear and then add formers 9 and 10.

Step 4. Assemble the jig that is used in the assembly of the fuselage nose. Use 1/16” square strip stock for keys on the jig as shown.

Step 5. Attach the jig to the fuselage as shown. The keys fit in the center notches of formers 5T and 5B. Use pins to hold the jig in place.

Step 6. Place former 3 on the jig using the keys in the top and bottom notches as alignment guides. Hold the former to the jig with a pin.

Step 7. Add the pieces of 1/16” strip stock shown. These pieces will set former 3 in place.

Step 8. Place former 4 on the jig and in contact with the top two longerons that had been installed. The jig sets the former at the proper angle. It will be necessary to adjust the two former notches to get a good fit.

Step 9. Add the remaining side stringers to the nose.

Step 10. Remove the jig. Removing the keys from the top of the jig will allow the jig to be extracted from the bottom of the fuselage.

Step 11. Add the top and bottom stringers. Trim the stringers at the nose flush with former 3. Sand the edge of former 3 to a radius.
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CAD Drawing by Paul Bradley  Sheet 10 of 12
THE COWL NOSE RING IS MADE FROM TWO LAYERS OF 1/8" BALSAS AND ONE LAYER OF 1/64" PLYWOOD IN THE ARRANGEMENT SHOWN. DO NOT REMOVE THE CENTER PLUG FROM THE PLYWOOD PIECE UNTIL AFTER SHAPING. USE THE CENTER HOLE IN THE PLYWOOD PIECE TO SECURE THE ASSEMBLY IN A DREMEL TOOL OR ELECTRIC DRILL. TURN THE ASSEMBLY AND SHAPE THE RADIUS. AFTER SHAPING THE PLYWOOD CENTER PLUG CAN BE REMOVED.

THE EQUIPMENT TRAY RETAINING RING IS MADE FROM THREE LAYERS OF 1/64" PLYWOOD. INSTALL THE RETAINING RING AFTER THE MOTOR HAS BEEN INSTALLED. USE 1/8" SQUARE BALSA STRIPS TO REINFORCE THE JOINT. THE MOTOR IS INSTALLED FROM THE BOTTOM OF THE EQUIPMENT TRAY. BRASS SCREWS (0-80) ARE A GOOD CHOICE FOR RETAINING THE MOTOR. A 1/4" DIAMETER BY 1/16" THICK MAGNET GOES IN THE HOLE IN THE TOP OF THE RETAINING RING.

THE RECEIVER BRICK IS INSTALLED AT THE REAR OF THE EQUIPMENT TRAY. THE PUSHROD SUPPORT IS INSTALLED AS SHOWN. USE A PIECE OF 1/8" SQUARE BALSA STRIP TO REINFORCE THE JOINT. EACH PUSHROD IS SLIPPED THROUGH THE HOLES IN THE SUPPORT. A 1/64" PLYWOOD LOCATOR IS THEN PLACED ON EACH PUSHROD BEFORE THE PUSH ROD IS ATTACHED TO THE SERVO OUTPUT ARM. DO NOT GLUE THE PLYWOOD LOCATOR PIECES UNTIL THE ASSEMBLY IS MATED TO THE PUSHRODS IN THE FUSELAGE. WHEN THE PUSHRODS ARE IN CONTACT WITH THE FUSELAGE PUSHRODS THE LOCATOR PIECES CAN BE GLUED TO THE SUPPORTS. BE VERY CAREFUL NOT TO GET GLUE ON THE PUSHRODS.