

If foam wing is used, sand a taper at the tip on the bottom surface starting here.

Mabuchi M20 motor. You can use the low volt version for more performance, or the high volt model for added duration.

Use a U-80 prop cut down to 2 1/8" diameter.

Motor is glued to fuselage with medium Cya

Be sure to check lateral balance after the model is completed!!

140 mah Lithium Polymer cell

Balance here ↑

Fuselage is made from 1/8" balsa. Taper aft of the actuators.

Background Information:

This model is based on the Guided Mite that was designed by Bob Coon and published in the April 1958 issue of Flying Models. For it's day, the Guided Mite was a real micro R/C model with an 20" wing span.

The wing is made from 1/32" sheet balsa. The ribs are glued to the root of each wing panel and at the location shown in the panel span. Glue the ribs to each panel before assembling the wing halves. After the ribs are in place, block up the tip of each panel 9/16" and sand the root vertical. The panels can then be assembled so the total dihedral is 1 1/8".

An alternative is to use a Bob Selman "Flat Plate" foam wing. That will require cutting the stock wing to the size shown and then sanding the upper surface to achieve the correct airfoil. If a foam wing is used, it will need to be strengthened. The best method for that is to cover the wing with Japanese tissue using an adhesive like thinned white glue.

1 1/8" Total Dihedral

All electric/electronic components are available from Bob Selman.

Control horns are 1/64" plywood. Make two.

Wing rib. Make 4 from 1/20" or 1/16" balsa sheet.

Use Selman mini actuators. Remove the stock magnets and replace with 1/8" x 1/16" magnets from wondermagnet.com. Also, use a 1/16" x 1/32" centering magnet on each actuator. This adjustment to the actuators allows them to work in close proximity to each other with out interaction. An unmodified actuator can be used if the model is flown rudder only.

Tail surfaces are made from 1/32" balsa sheet

Use an Azar M72-L or M72-I antenna

Micro Guided Mite

Wing Span - 7 3/4" Wt. - 15 gr

Designed by Ralph Bradley

Drawn by Paul Bradley

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If foam wing is used, sand the upper surface to create this airfoil shape.

