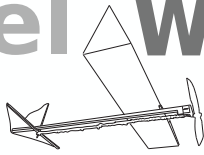


High Performance Model Airplane



Put on your running shoes! This simple model airplane can fly out of sight!
Instructional Videos & support at Web site. Learn to build and fly your Squirrel. See amazing flying videos.

Designed by Darcy Whyte, 2004

Glue using craft glue unless glue stick is stated. Apply craft glue using toothpick. Use very little glue. If you build your Squirrel carefully and take good care of it, it can last for years.

0 - Visit www.rubber-power.com

1 - Choose strip of tissue for wing. Glue stick a thin 12" (30cm) stick to edge of tissue to form wing leading edge. Make sure there is at least 2" (5cm) of extra tissue at each end of stick. (fig. A)

2 - Glue 2" (5cm) balsa to leading edge using craft glue and to tissue with glue stick. **3** - Repeat for other side.

4 - Glue winglet spar in place on **top** of wing tip. It is flush with left edge, centered from front to back.

5 - Repeat other side flush to right side. **6** - Glue 2" (5cm) balsa strip to edge of piece of tissue paper to form fin.

7 - Cut off fin with scissors. **8** - Glue fin to 12" (30cm) motor stick (fig. B). Balsa stick overhangs motor stick at the bottom by about 1/16" (1.5mm).

Tissue runs to back of motor stick. **9** - Snip toothpick in half with scissors. Glue thick piece in front of fin. It hangs underneath fin by about 1/4" (5mm). It is also glued to motor stick.

10 - Glue brace in front of tooth pick. It is less than 1" (2.5cm).

11 - Glue 6" (13cm) balsa stick to motor stick to form wing seat. Glued to **side**. It is flush with top. It is a pinky width from front of motor stick.

12 - Add 2" wing center as in step 2. Use 6" piece (step 13) to find wing center. (fig. A)

13 - Glue 6" piece to tissue to form horizontal stabilizer.

14 - Snip off horizontal stabilizer.

15 - Trim extra tissue from beneath motor stick with scissors.

16 - Glue horizontal stabilizer to motor stick. Tissue side faces motor stick. Rest this assembly on table edge to dry. Make sure stabilizer balsa is glued well against motor stick.

17 - Glue 12" trailing edge using craft glue where it meets wood and a glue stick where it meets tissue. (fig. A)

18 - Snip any **trailing** tissue from wing. **DO NOT CUT** extra tissue at sides.

19 - Glue 4" (10cm) wing brace (fig. D)

20 - Glue shim to bottom of wing. Side with shim becomes front of wing. Wing shim is about 1" (2.5cm) or less. (fig. E)

21 - While holding winglet with finger, add glue to outer side of winglet spar.

While holding winglet press tissue against it from bottom up.

22 - Snip fin tissue. (fig. B)

23 - Snip horizontal stabilizer. (fig. C)

24 - Trim winglets. (fig. D)

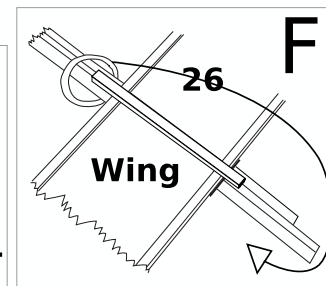
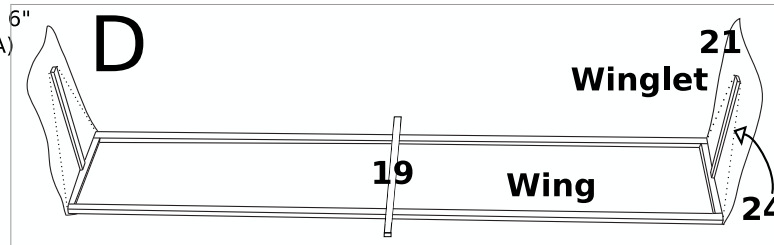
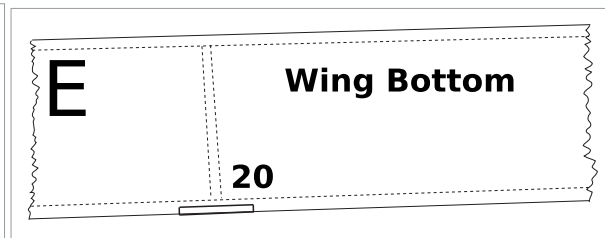
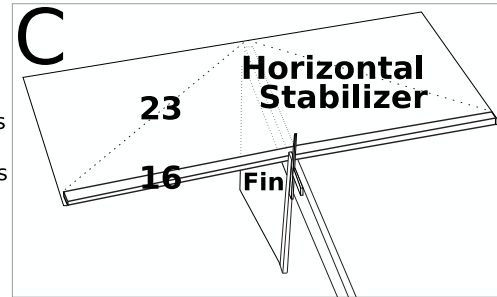
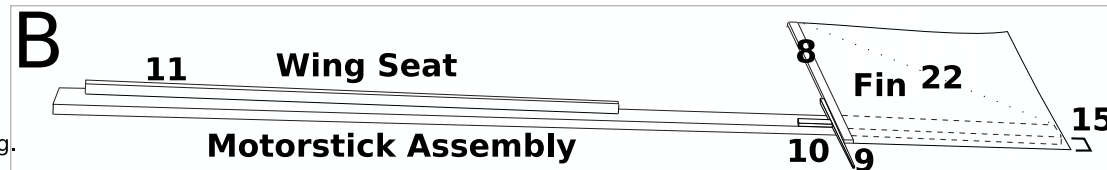
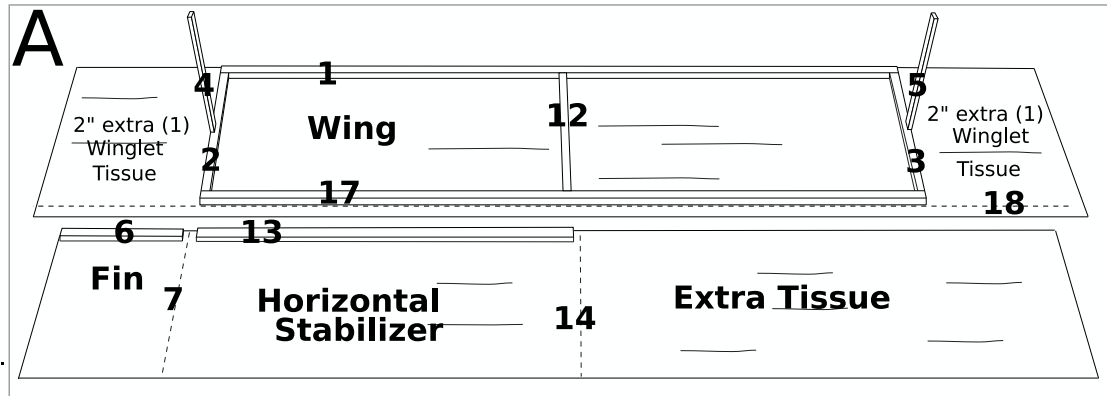
25 - Tie 20" (45cm) elastic motor into 10" loop using square knot.

26 - Mount wing using small elastic as follows: Loop elastic onto motor stick.

Place wing on wing mount with shim in front. While holding wing in place by wing brace, stretch elastic over top of wing and back onto motor stick. (fig. F)

27 - Mount propeller on motor stick. Prop. shaft below motor stick.

28 - Add motor loop to small metal loop at back of propeller. The knot goes to the back of airplane. Motor loop will hang down.

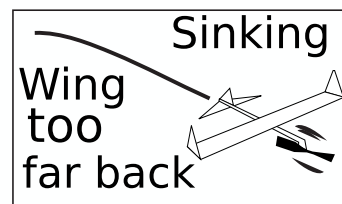
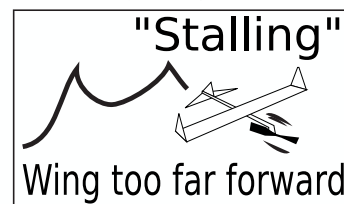


Care - Pick up your Squirrel from the propeller mount. When the wing is unmounted, handle the wing by the brace (step 19). When retrieving from bushes or other predicaments, move slowly and carefully. Store in small box with wing removed or larger box with wing installed. Avoid water or moisture.

Winding - Wind clockwise from front. Hold motor stick underneath wing when winding. If the elastic is too loose to hook-on toothpick, hold elastic tension with same hand that is holding airplane. After 50-60 winds, hook it on toothpick.

Safety - Do not chase plane onto roadway or other dangerous places. Do not climb trees. Children need supervision. Do not put parts in mouth. Choking hazard.

Flying - First test airplane with about 200 turns of winding. Launch from motor stick underneath wing with one hand and use the other hand to hold propeller. Release propeller. Once it comes up to speed, launch gently level or slightly down as if towards a point about 40' ahead on the ground. If the plane fails to climb with 200 turns, move wing forward. If it climbs then dives then climbs (stalls), move wing back. Repeat launch with 200 turns and adjusting wing until it flies nicely. Then start increasing winds for each flight till you reach 400-500 turns.



Tips - Follow video instructions at www.Rubber-Power.com.

- Write your name and phone number on your Squirrel.

- Add tick marks to motor stick to note wing position once wing is adjusted.

- Decorate your Squirrel with different colored tissue, markers and ink stamping.

- Flies best with no wind or <5km/h.

- Keep small blob of white glue on piece of wax paper. Transfer glue to model using toothpick.

- If motor stick has bow or curve, it should bulge downward. If wing trailing edge has a bow, it should bulge upward.

- Attach paper aileron to rear of either wing for turning. Also can attach paper rudder to leading edge of fin.

Tools - Scissors, Toothpick, Craft Glue (such as Aleene's Tacky Glue), Glue Stick (UHU type)

Materials - 1/16 x 1/4" Balsa: 2-12", 2-6", 6-2", 1-4", 1-1"; 1/8 x 3/8 x 12" Motor Stick, 1/2 Toothpick, Propeller with mount (5-6"), 10" Elastic Motor Loop (1/8" rubber), #8 Elastic Band, Tissue Paper 2-17x2.5"