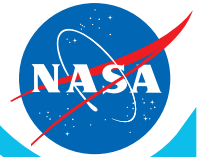


# Assembling the Swift Plane



## Tools:

- Scissors: to cut out the parts
- Blade/knife: to cut out weight hole
- Ruler: to fold the tabs and make creases
- Glue: to glue the parts
- 1 Dime: to add weight to the plane

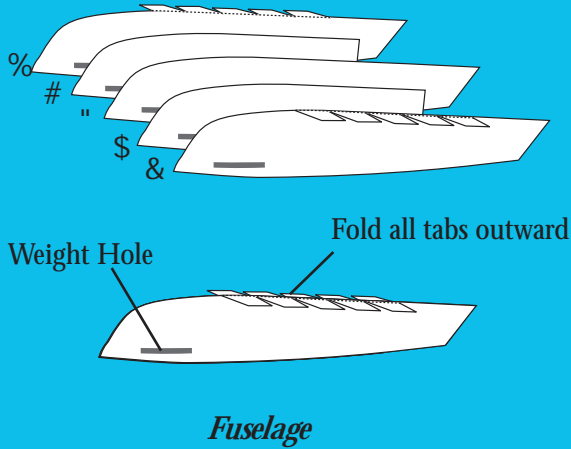


Fig.1

- 1** Roughly cut out each part. Go back and trim each part carefully. You may want to write the part number on the back after cutting them out.
- 2** Cut out the *weight hole* on each part.

- 3** Fold all tabs outward (you may use the ruler to help).
- 4** Glue 1 through 5 together in the order indicated below (Fig.1):
  - 1 and 2
  - 1+2 and 3
  - 1+2+3 and 4
  - 1+2+3+4 and 5 = *Fuselage*

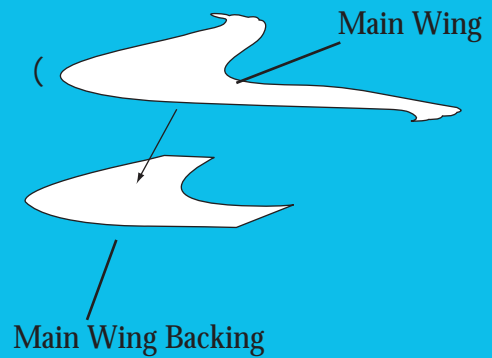


Fig.2

- 5** Align and glue the main *wing backing* (6) under the main *wing* (7) (Fig.2). Check all edges while gluing. They should snugly fit together.

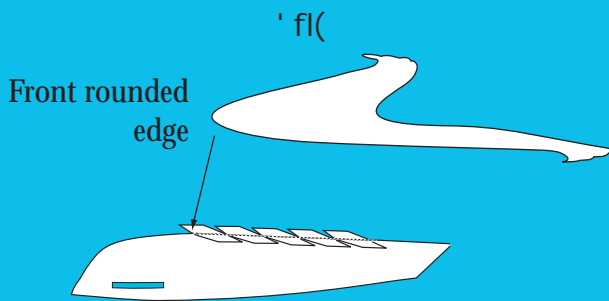
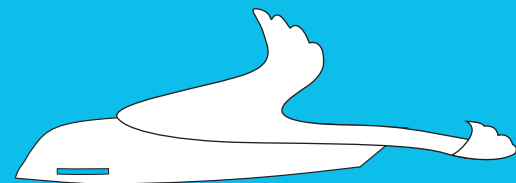


Fig.3

- 6** Glue 6+7 to the *fuselage* (Fig.3). Align the front rounded edge of the wing assembly to the edge of the *fuselage* tabs, near the front (Swift's head). Use the line on the *wing backing* to align the *fuselage* with the wing assembly.



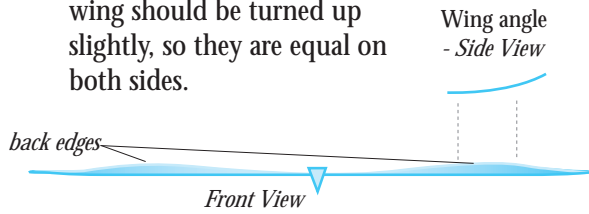
Swift Plane Assembled

Turn page over for finishing touches, and flying instructions.

# 1

## Getting Ready to Fly

- A. The back edges of the main wing should be turned up slightly, so they are equal on both sides.



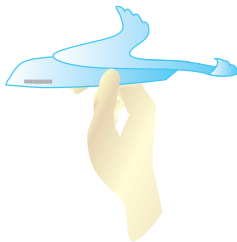
- B. Then, bend the tip of the wings upward to approximately 45 degrees at the line where the wing backing ends.



- C. Place a dime through the *weight hole*.

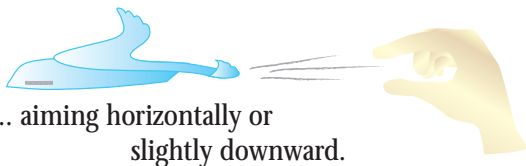
# 2

## How to Fly Your Swift Plane



Hold the plane so it balances on your fingers

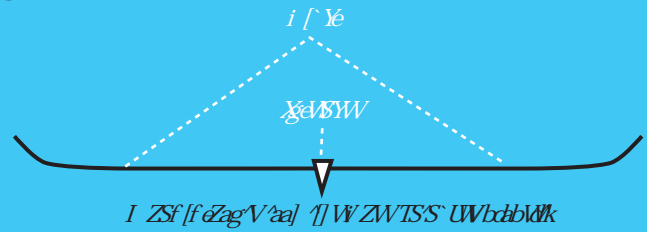
Move the plane **very gently** forward ...



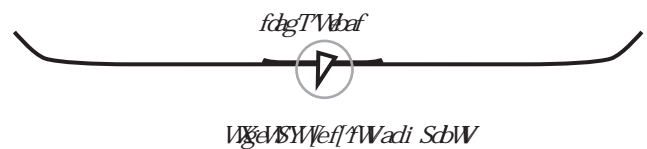
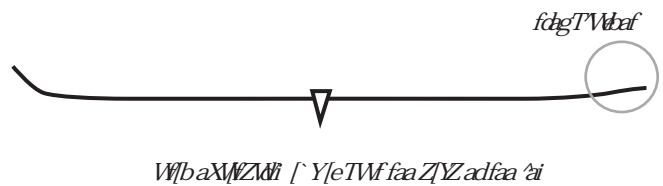
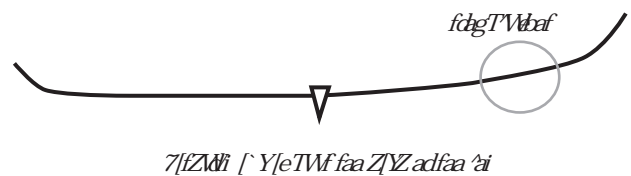
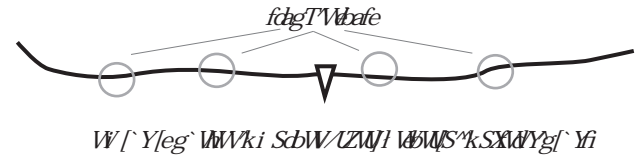
... aiming horizontally or slightly downward.

# 3

## Flight Troubleshooting - Quick guide



*Ea Wba a' bchTWe*



The Swift Plane is based on a paper plane model from the WhiteWings Assembly Kit by Yasuaki Ninomiya and is used by permission. Check out this site for more tips on how to make your plane perform even better <http://www.whitewings.com>

## About Swift:

Swift is a NASA Explorer mission that was launched November 20, 2004 to study gamma-ray bursts.

Gamma-ray bursts are huge explosions located in distant galaxies, but their cause remains one of the greatest mysteries in astronomy. Swift is designed to detect the bursts and autonomously

point sensitive telescopes at their positions to observe the fading optical, ultraviolet, and X-ray afterglows.

Named after a bird that catches its prey on the fly, the Swift satellite can very rapidly usually in under a minute swing around and aim its telescopes at a gamma-ray burst.

Swift's scientific goals are to determine the origin of the bursts and to use them to probe the distant universe.

Swift is a NASA mission that was built and is operated by an international collaboration. Countries with major contributions are the US, Italy and the UK.

<http://swift.sonoma.edu>

