

# WOKET

## High Power Flying Saucer Kit

### Kit Features:

Unique Flying Saucer design

24" Diameter body

Fiberglassed airframe

Baltic Birch fins

54mm motor mount

Rear Ejection recovery system

This kit is designed for longer burn  
54mm motors.

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## List of Materials:

- (1) 24" diameter fiberglass airframe
- (1) 4" motor housing tube
- (1) 54mm motor mount tube
- (2) Outer fin support rings
- (2) Centering rings for 54mm
- (1) Upper shock cord bulkhead
- (1) Upper bulkhead
- (3) Baltic Birch fins
- (2) U-Bolts with hardware
- (1) Fiberglass tape
- (1) Tubular Nylon shock cord
- (1) Instruction Manual

## Construction

*Please read and understand each step. The construction methods used in this kit differ from others in many ways. It is important to follow the instructions to ensure you get the most out of your kit.*

Mark the 4" fiberglassed body tube with an arrow indicating the top of the rocket. This end will be referenced for measurements.



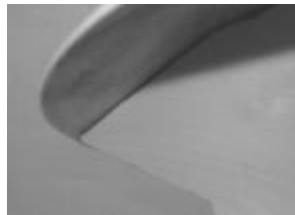
Slide the two outer fin support rings (these have three notches and one hole in them) onto the body tube. Line up the holes as shown. These holes are the launch lugs for the rocket. Do not glue the rings into place at this time.



Test fit all three fins in place as shown. The top of the fin should be flush with the top of the body tube. Once you have achieved a snug fit, epoxy the rings to the body tube and the fins in place at the same time. Ensure each fin is perpendicular to the body tube. Allow to cure completely.



Test fit the fiberglass body onto the fin assembly. The body should completely cover the fins, with the outside edges of the fins seating at the lip of the body.



With the body seated in place, mark the top of the fins as shown. This will be a reference line for epoxying the body onto the fin assembly.



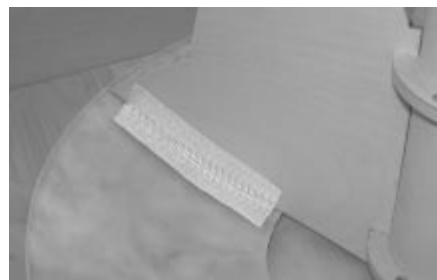
Apply a thick bead of epoxy to the top of each fin from the line you drew to the outer edge of the fin.



Seat the body onto the fin assembly, ensure it is seated in position, and hold firmly until the epoxy sets up. Allow to cure.



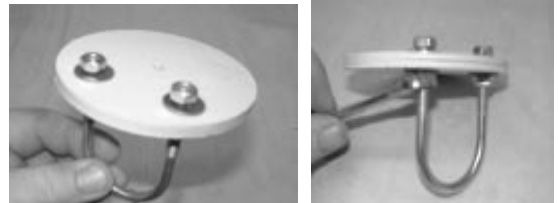
Cut 6 sections of fiberglass tape to fit as shown. These are used to reinforce the joint of the fin and body. Brush or spread epoxy onto the tape as shown.



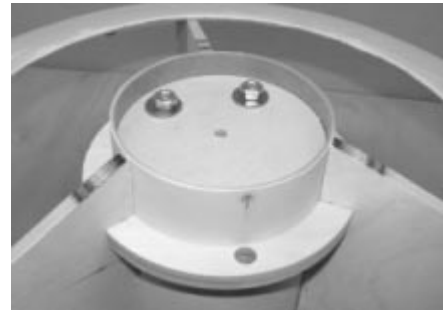
Epoxy the 3" long coupler into the top of the body tube as shown. Seat the coupler 3/4" below the top of the body tube.



Mount the U-Bolt to the upper shock cord bulkhead as shown. Ensure the U-Bolt does not protrude above the nuts. Tighten with a 7/16" wrench and secure the threads with epoxy or CA.



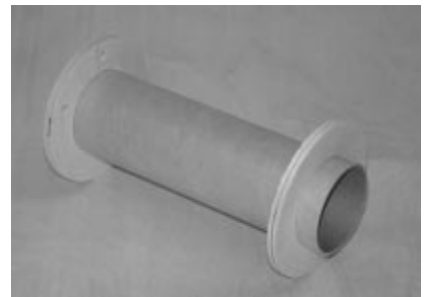
Epoxy the forward shock cord bulkhead into the body tube as shown. Ensure it is seated against the coupler glued in earlier.



Epoxy the top bulkhead into place. The bulkhead should line up with the top edge of the tube. Leave the holes in the two bulkheads open, this is to prevent the ejection gases from overpressurizing the body tube.



Epoxy the two centering rings onto the 54mm motor mount tube. Each ring should be 1/2" in from the end of the tube. Allow to cure completely.



Attach the U-Bolt hardware to the pre-drilled centering as shown. Tighten with a 7/16" wrench. Apply epoxy or CA to the threads to prevent them from loosening up over time. Attach one end of the shock cord to this U-Bolt and the other end to the U-Bolt in the body tube. Secure these knots with CA.



Your Woket is now complete. There are some tips on loading motors and flying the kit.

Use very little ejection charge. Appx. 1/2g is plenty. Some motors with pre-packed ejection charges will have to have the amount of powder reduced to prevent the ejection from being too strong.

The motor is retained with masking tape as shown. Additional masking tape is used to insulate the shock cord from the hot motor casing.



Use a 48" to 60" parachute for your Woket. Secure the parachute around the motor tube between the centering rings. **DO NOT WRAP THE PARACHUTE AROUND THE MOTOR TUBE WHEN PACKING**, gently pack it into the space between the motor tube and the body tube. Wrapping it around the motor tube may cause it to foul.

The Shock cord is wrapped around the motor and U-Bolt then taped to hold it while the motor assembly is slid into the body tube. Orientate the motor so the two U-Bolts do not hit each other. Use masking tape to hold the motor assembly into the rocket (tape over the back end). It should not be a very tight fit for the motor tube assembly, this will cause a violent ejection.



Use the shortest delay you can with any motor. As you can imagine, there is very little coast after motor burnout.

Avoid flying your rocket in winds over 10 MPH. You can expect altitudes between 100' and 300' depending on the motor flown. No weight or balancing is required, the rocket is stabilized aerodynamically.

*Happy Fly*

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