

RadJet **800**



INSTRUCTION MANUAL

H·KING

Please read this manual carefully before operating this plane.

PNF
VERSION



WARNING:

Read this instruction manual fully so as to become completely familiar with the features of the product before operating. Failure to operate this product correctly could result in damage to the product, personal property and cause serious injury. This is a sophisticated hobby product and is NOT a toy. It must always be operated with caution, common sense and some basic mechanical ability. This manual provides instructions on the assembly, safe operation and maintenance of this hobby product. It is highly recommended that you read and follow fully the instructions and warnings stated in this manual including safety, assembly, set-up and flying guidelines in order to operate this product correctly and avoid damage or serious injury.

SAFETY PRECAUTIONS:

As the user of this product you and you alone are responsible for operating it in a manner that does not endanger yourself and others around you or result in damage to the product or property of others. This product is operated via a radio controlled system that in some cases can be subject to interference from sources outside of your control. Interference may result in a momentary loss of control so it is always recommended that this product be used in a suitably open outdoors space.

- This is a radio controlled flying model and as such must always be flown with caution, this is NOT a toy.
- The Radjet 800 brief was to design a model for intermediate to experienced pilots.
- Always exercise great caution when using the recommended battery to power this product. For full safety notes and operating procedures please read the information provided by your battery supplier.
- Take great care when connecting/disconnecting the battery. Once again see your battery suppliers information for the full safety procedures.
- Never power up the model in a confined space and always keep the propeller clear of obstructions, clothing and parts of your body.
- This product is not a toy, children must be accompanied by an adult at all times when operating this product.
- Only fly this model in an open area away from crowds, people, buildings, trees, power lines, roads, airports and other obstructions.
- Always put safety first when operating this model and consider the warnings stated above.
- The supplier/manufacture accepts no responsibility for damage or injury caused through the use of this product. A reminder that it is not suitable for children under the age of 14. **THIS IS NOT A TOY.**

« INTRODUCTION »

Are you looking for extreme speed right out of the box? If so, we've got you covered. There is plenty of rad in the Radjet 800! With its amazing price, EPO foam and being Plug and Fly, this brilliant model has no trouble earning the Radjet name.

The Radjet 800 has been tested and flown to within an inch of its life and it performed flawlessly, not only in terms of light performance but also reliability and believe me, we tried hard to kill the test version! It's a simple build with the motor, ESC and servo's pre-installed, even the decals are pre-applied! It has several impressively simple and practical features such as the plastic skid on the length of the underside of the fuselage that will protect your Radjet from the usual tears and gouges, effective cooling for the ESC & Lipoly and so on.....and it's how much?

But, it doesn't stop there, oh no! What's it like to fly? Utterly brilliant! The light flying weight means that the outrunner motor gives tons of performance, the Radjet will pull massive loops and is capable of some pretty precise aerobatics, it's quick, no doubt about it but throttle back and it becomes a total pussycat, fly it like you stole it or glide around, either way, it's a hoot! So to sum up, it looks great, it's easy to assemble, flies brilliantly, is reliable, fast and cheap....Radjet? You better believe it!

« SPECIFICATIONS: »

Wingspan: 800mm

Length: 600mm

Empty Weight: 370 grams

Motor: 2010 1800KV brushless outrunner (included)

ESC: 20amp brushless with BEC (included)

Propeller: 6 x 4 (2 included)

Servo: 2 x 9g metal geared digital servos (included)

Recommended Battery (not supplied): 3S (11.1V

1300-1600mah 30C lipoly or similar

Required: 2.4Ghz 4ch or more transmitter and receiver with programmable elevon mixing.

« FEATURES: »

- "Plug and Fly" format, simply add your own radio system and batteries
- Roomy battery compartment to allow the battery to be positioned precisely for the perfect C of G
- Potent brushless power system pre-installed
- Tough EPO foam construction
- Bright colors for easy orientation in the air
- Digital metal gear servos pre-installed
- Easy assembly

« KIT CONTENTS: »



◀ ASSEMBLE THE MODEL ▶

Step 1: Screw a control horn to each elevon using 2 PK screws in each horn only.



Step 2: Center the elevon servos using either your radio or a servo tester and connect the pushrod as shown.



Step 3: Slide the carbon wing tube through the fuselage.



Step 4: Apply some medium or slow setting CA glue to one wing root on the fuselage. Slide one wing panel onto the wing tube, ensure the wing tube stays central in the fuselage and hold tightly in place whilst the glue sets.



Step 5: Repeat the process for the other wing.



Step 6: Connect the servo leads to the extension cable and tuck away the excess lead in the servo well. It is a good idea then to cover the lead with a piece of white self adhesive tape.



Step 7: Using a medium or slow setting CA glue, glue into place the plastic fuselage underpan.



Step 8: Glue into place the servo covers using a medium CA glue.



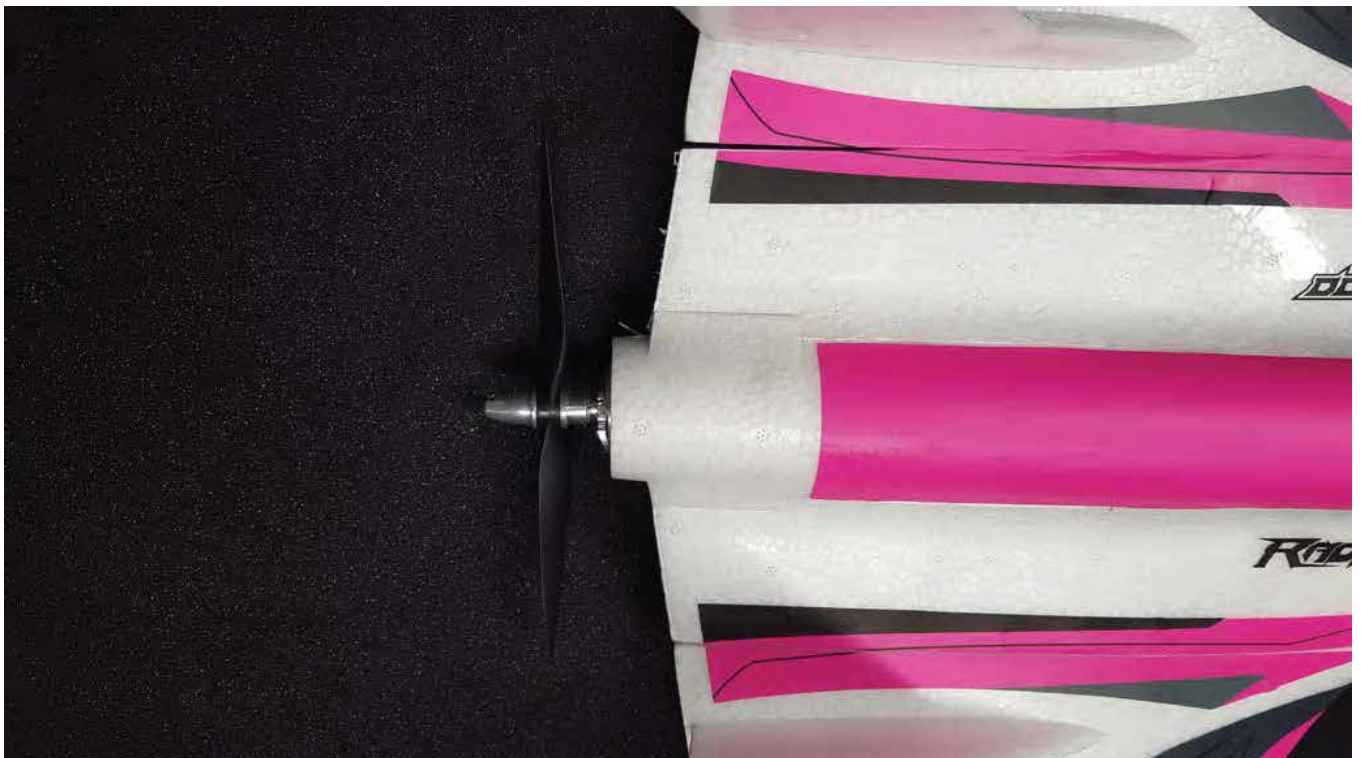
Step 9: Apply medium CA glue to the slot for one of the vertical stabilizers.



Step 10: Push the vertical stabilizer into the slot and hold until the glue sets. Please ensure it stays vertical as the glue sets.



Step 11: Repeat this process for the second vertical stabilizer.



Step 12: Fit the propeller and hub to the motor shaft. Please make sure the propeller is facing the correct way, the leading edge of the propeller should be facing forwards.



Step 13: Using a medium CA glue the canopy to the battery hatch cover



Step 14: Your RADJET 800 construction is now complete, you just need to add your receiver and battery and set up your radio.

« RADJET 800 SET-UP: »

Connect one servo to the aileron output of your receiver and one servo to the elevator output, connect the ESC servo lead to the motor output. Now activate the ELEVON mixer on your transmitter. Before powering up your receiver with the flight battery you need to set the ESC. Before you do the next step it is best to remove the propeller from the motor. Switch on the transmitter with the throttle stick in the fully closed position and the throttle trim also fully down. Now connect your flight battery to the ESC, you will get a rising tone, then 3 beeps (denotes a 3 cell battery is connected) then a long beep, the ESC has now been set, carefully open the throttle and the motor will run.

Check now that the ELEVON mixing is working in the correct direction ie; right aileron on the transmitter, right aileron goes up, left goes down, up elevator on the transmitter should show both elevons going up. Use your servo reverse function to put right anything that is not working in the correct direction. If you cannot get the mixing to work correctly swap the 2 servo leads over in the receiver. Put the elevator one in the aileron output and the aileron one in the elevator output, doing this should enable you to get the mixing correct. Once you have everything working in the correct direction set the throws as follows. A lot of modern transmitters allow you to go $\pm$ on the travel throw which sorts this problem much easier.

Ailerons: 7-8mm up and down (exponential 20~30%).

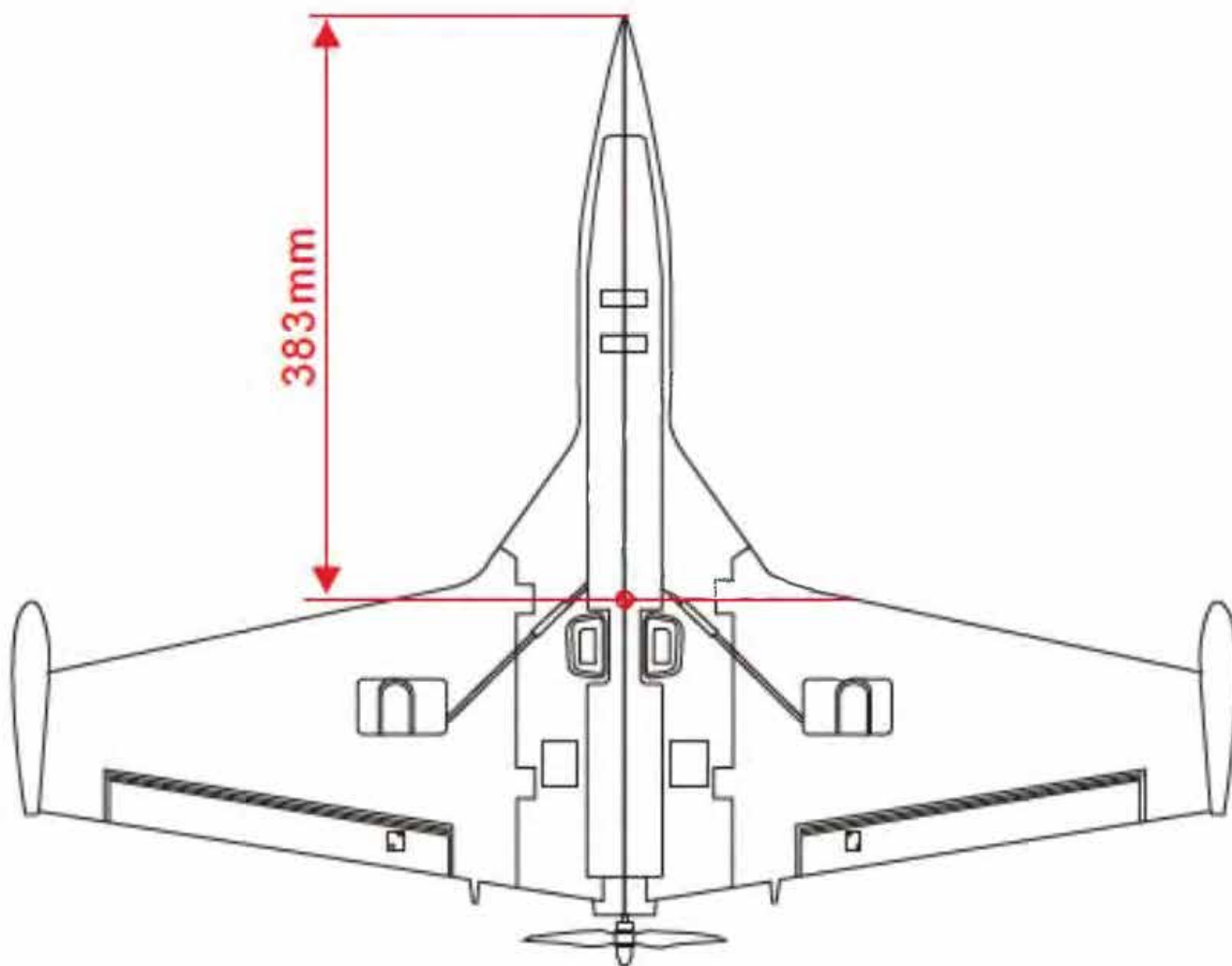
Elevator: 10mm up and down (exponential 20~30%)

These throws and settings are just recommendations for first flights. Once you have flown the RADJET you can tweak them to your own particular flying style.

Once all the above is done use a piece of the sticky back hook and loop tape to secure the receiver in the fuselage tunnel behind the battery compartment. Refit the propeller and install your flight battery moving it forward or aft to achieve the correct C of G as shown below.

« C of G.: »

For initial flights please set the center of gravity as shown at 383mm from the nose. Once again this is the recommendation for initial flights and can be adjusted as you feel necessary once you have flown it a few times. A further forward C of G gives smoother flying and a more rearward C of G makes for a more lively flight envelope so proceed with caution moving the C of G back from the point shown.



We hope you enjoy flying your H-KING RADJET 800 and if you haven't already tried out the others in our range then we recommend you visit our website at www.hobbyking.com and take a look at our ever increasing range of quality model aircraft and accessories.

Have fun.

H·KING

Made in China

