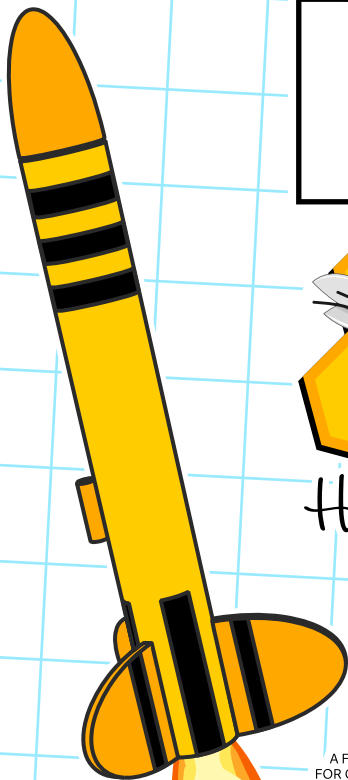


R3



HoneyBee



A FLYING MODEL ROCKET KIT
FOR QUEST MICROMAXX MOTORS
AND 1/16" LAUNCH RODS



Rocketship Games

Preparation

Gently poke out the fin and launch lug slots on the body tube.

Sand the nosecone plug until it slides easily in the body tube.

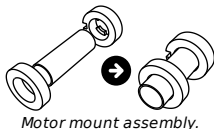
Brush glue on the ends of the Kevlar thread to prevent fraying.

Trace the fins with a hobby knife and cut the small tabs holding them in their frame. Gently detach the fins and sand or file them smooth. Also cut the glue applicator stick off the frame.

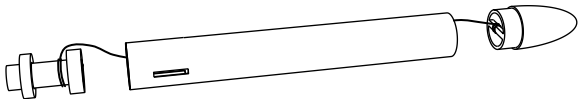
Cut off the tab connecting the motor block and centering ring. Sand or file the two parts until the motor tube slides into them readily and they in turn slide freely into the body tube. Note that the motor tube will not go through the motor block.

Assembly

Put a ring of glue around the motor tube between the two engraved lines 4-7mm from one end and slide the centering ring into place between them. Put another ring of glue around the outside of the other end of the motor tube and cap it with the motor block.



Once the motor mount is fully dry, securely tie one end of the Kevlar thread around the motor tube between the motor block and centering ring. Feed the other end through the body tube, from the bottom with the fin slots and out the other end. Tie the loose top end securely to the nosecone's anchor bar.



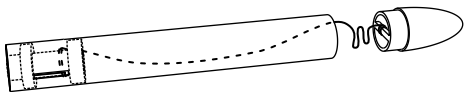
Motor mount, body tube, and nosecone threaded together.

Put glue on the "X" end of the glue applicator and use it to smear a ring of glue inside the body tube 17-20mm from the bottom, just forward of the fin slots, by inserting the applicator to the second engraved line. Cover the outside face of the centering ring with glue as well.

NOTE

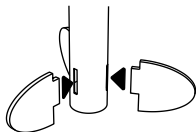
Cyanoacrylate and other fast setting glues are not recommended for this step as it may take some adjustment.

Slide the motor mount into the body tube, motor block first, until the bottoms of the motor tube and body tube are flush. The motor block and centering ring should border the fin slots to the top and bottom. Pull the Kevlar thread taut from the other end of the body tube while inserting the motor mount, ensuring it runs through the notch in the motor block. Orient the motor mount such that any knot in the Kevlar thread tying the latter to the motor tube does not obstruct any fin slots.



Motor mount inserted into body tube.

After the motor mount dries in place completely, test fit each fin in the fin slots. Sand or file each as necessary to make the fin roots sit flush on the body tube. The tab of the fin goes forward, such that the bottom edge of the inserted fin is flush with the bottom edge of the body tube.

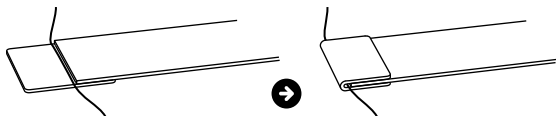


Inserting the fins.

Put glue on the root edges and tabs of the fins and insert them into their body tube slots. Use the template on the back to ensure they all point straight out at 120° intervals.

Sit the launch lug in its slot, its bottom edge 45mm from the bottom of the body tube, inside which it should be visible but not protrude. Fillet glue along it and the body tube's outer wall.

Affix half of the streamer sticker to one end of the streamer. Set the Kevlar thread onto the sticker alongside the streamer, about 50mm down from the nosecone. Fold the sticker over and firmly press the other half to the Kevlar thread and streamer.



Attaching the streamer to the Kevlar thread.

Your rocket is now fully assembled!

Finishing Notes

Many excellent guides on painting and otherwise finishing a model rocket such as this are available online and in books.

However, note that the included decals are pressure sensitive vinyl stickers, not waterslide transfers. Simply unpeel them from the backing paper and press them on. The fin stripe decals are meant to cover most of the faces of the fins, strengthening them. The bee graphic will only work well over very light colors.

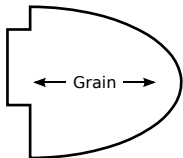
Flight Tips

Use just enough recovery wadding to block up the body tube. Not much is needed, maybe half a typical piece, ripped into half again and loosely balled up. Make sure the balls slide in easily.

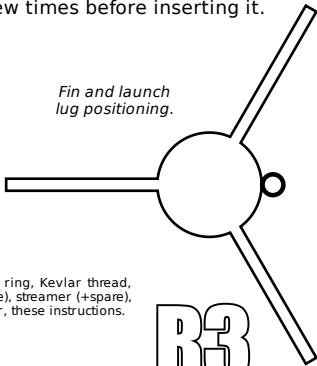
Fold the streamer in half and then fold it in small alternating strips repeatedly like an accordion until it fits easily in the body tube. Loosely wrap the lower section of the Kevlar thread around the folded streamer a few times before inserting it.

Templates

Fin pattern (for repairs).



Fin and launch lug positioning.



Parts List: Motor tube, motor block, centering ring, Kevlar thread, body tube, nosecone, 3x fins, launch lug (+spare), streamer (+spare), streamer sticker (+spare), decals, glue applicator, these instructions.

Tech Specs

Rec. Motor(s): Quest MicroMaxx (6mm 1/8A)
Length: 122mm
Diameter: 14mm body, 54mm w/ fins
Weight: 4g empty, 5g w/ motor
Stability: 1.6 caliber w/ motor
Flight Pred.: 162ft, 92mph, 7s

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