

Hello Toby

Engine aircraft

Discover the Joy of a

Electric Friend

Includes:

paint and

art stuff

to create

your own

unique friend



NOT
included



level



Toby

the single engine aircraft



*Hi there!
I'm Mr Sparkz!
Let me introduce
you to my
friend Toby!*

Hey there, little buddy!

I'm Toby, the single engine aircraft.

I'm a single engine aircraft and I'm here to tell you about me, so get ready for some fun!



Hi there, my friend! I'm Toby, the Small Single-Engine Aircraft. I'm here to take you on a fantastic adventure through the skies!

Imagine soaring high above the clouds, feeling the wind in your hair, and seeing the world from a whole new perspective.

I have wings that help me glide through the air, just like a bird. And with my propeller spinning, I can fly faster and explore new places.

So, my little adventurer, buckle up and get ready for an amazing flight with Toby, the Small Single-Engine Aircraft.

We'll explore the skies together and make memories that will last a lifetime. Let's fly high and have a wonderful time!

Let's see what we need and how to prepare:



How to get prepare:

- Before you start, you need to find a safe and clean place to work.
- If you have any questions or need help, you can ask your parents, a grownup or teacher and they will assist you.



Some things to keep in mind:

- *Be careful:* When you open the package with the parts, be careful not to drop or lose any small parts. They are very important for your model. If you lose a piece, your model might not work!
- *Read and follow:* If you want to make your model easily, you need to read the instructions well and follow the steps.

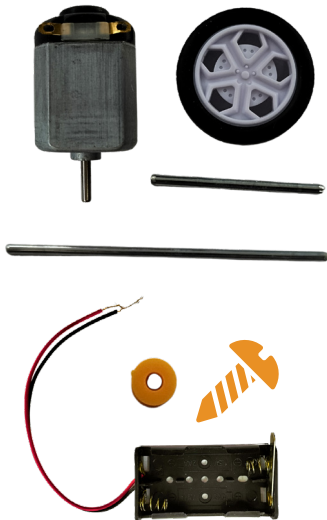


Remember to get 2 x AA batteries for Toby!



What is in the BOX

- 4 wheels
- 1 battery box
- 3 brackets
- 1 motor
- 3 bushings
- 2 shafts
- 4 spacers
- 1 propeller
- 9x 6mm screws
- 1x 12mm screw
- 6x 4mm screws
- 1x 95mm plate
- 2x 1590 plates
- 2x cross mounts





x 1

1

6

x 1



x 3

2

7

x 1



x 2

3

x 1



x 1

4

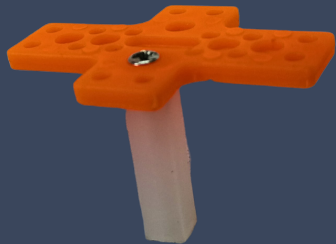


x 2

5

x 1



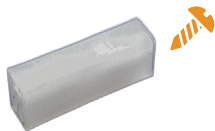


Step 1

3

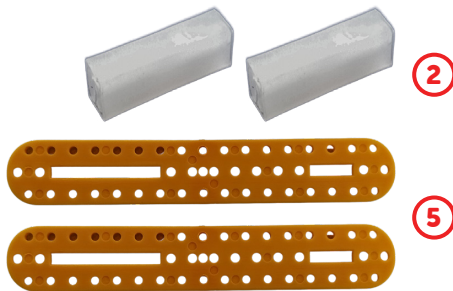


2



Let's start by putting together plates 3 and plates 2. We'll use a 6mm screw to connect them.

Step 2



Now, it's time to build the wings of our airplane. We'll use two plate 5s and connect them with plate 2s with 6mm screws. Make sure to tighten them on both sides.





Step 3

3



4

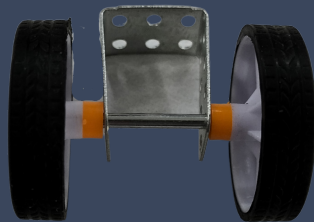


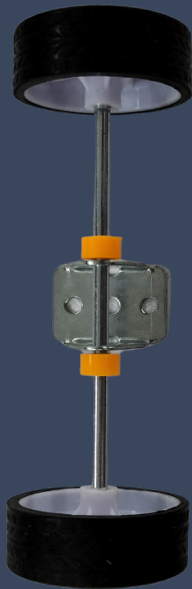
Attach another plate 3 to plate 4 using 6mm screws.

Step 4



Take a 30mm shaft and slide a U-shaped bracket onto it. Then, add a spacer on each side of the bracket. Finally, attach the two big wheels on each side of the shaft.





Step 5

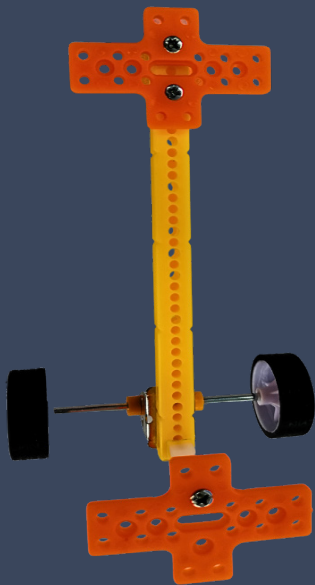


Take a 60mm shaft and slide the other bracket onto it. Then, add spacer on each side of the bracket. Finally, attach the two small wheels on each side of the shaft.

Step 6



Attach the bracket from Step 1 to plate 4 using a 4mm screw and a 12mm screw. Make sure the longer screw is on the front side of the plate. Add step 5 to plate 4.





Step 7



Attach the U-shaped bracket to the plate 4 using 4mm screws.

Step 8

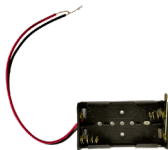


Check that all four wheels touch the ground at the same time and are straight and parallel to each other. Add step 2 to plate 4 using 4mm screws.



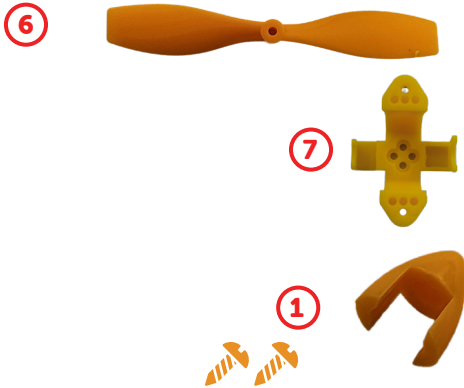


Step 9

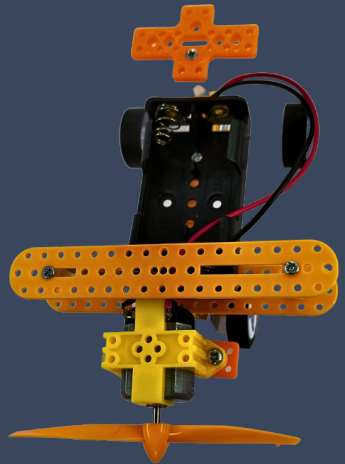


Connect the wires to the motor Remember, the red wire should be on the left side of the copper plate, and the black wire on the right side.

Step 10



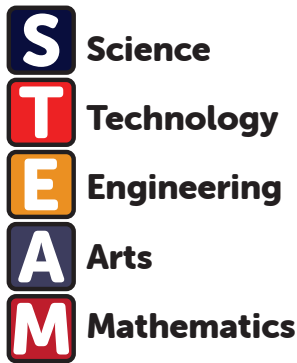
Install the motor onto plate 4 using plate 7 with 6mm screws, secure the battery box with 4mm screws. Attach plate 6 to the motor. Then, install plate 1 after plate 6



Step 11



Insert batteries to see Toby move!



Here's how they help:

1. *Hands-On Learning:*
Kids do experiments and projects, making learning fun.
2. *Problem-solving:*
They learn to solve problems by thinking and trying things out.
3. *Creative Thinking:*
Arts and design are part of *STEAM*, so kids get to be creative.
4. *Confidence:*
Completing projects makes kids feel like they accomplished something
5. *Preparation:*
STEAM skills are important for the future, so kids are ready for jobs.



STEAM kits -
help kids learn
many skills they'll
need in a fun and
practical way.

Collect them all



Please ask your mom / dad / teacher or a grown up to help you to upload your creations to our community page on the website. We would love to see your creations and also share and inspire the little creator in you.

Cody
Conveyor belt

