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Step By Step Construction Plans.
15 Pages With Over 70 Full Color Photos showing how to build the

**TIE Fighter**

Wingspan: 7 1/4”
Length: 7”
Height: 7 3/4”

Can be made from most 12 or 16 oz Beverage Cans.

**TOP SECRET**

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Welcome to the B. C. Air Originals Squadron.

This booklet contains complete step by step instructions for building the B. C. Air Originals TIE Fighter. Before you start building your first plane it is suggested that you review the entire set of plan directions. Once you have previewed the construction steps you should start collecting the cans that you want to use to make your first plane. These plans are designed to be used with any 12 or 16 oz. Beverage can. Always use clean, un-scratched and un-dented cans for the best looking planes.

Since the building of these planes requires the cutting of cans and the use of sharp tools, CHILDREN SHOULD NEVER ATTEMPT THE CONSTRUCTION OF THESE PLANES WITHOUT ADULT SUPERVISION AND GUIDANCE. CONSUMER ACCEPTS ALL RESPONSIBILITY FOR ANY INJURY INCURRED IN THE BUILDING OF THESE PLANES.

It is not necessary to follow all the building steps in the order presented. Such as, if you want to make the Solor Panels (wings), you can do that and then set them aside until you need them. However, until you understand the construction of these planes, it may be easier to follow the steps in the order listed. Your very first step should be to make a copy of all the templates. All templates are drawn to scale. Using a sheet of mylar (Clear Plastic) will enable you to re-use your templates again and again. There is no limit to the number of planes you can build with these plans.

We, at B. C. Air Originals, will make every effort to assist you in answering any questions you may have about the construction of these planes. Please feel free to contact us ANY TIME at command@bcairoriginals.com or P.O.Box 4053, Helena, MT 59604.

Thank you for your interest in the B. C. Air Originals and have FUN!
The following is a list of tools and materials I use to build this plane.

**TOOLS:**

- Pliers.
- Push Pins.
- Hot glue gun.
- Wire cutter.
- X-acto knife (hobby knife).
- Scissors
- Ruler (straight edge).
- Felt tip pen (any color).
- Needle nose pliers.
- Paper Cutter.
- Ball Point Pen.

**Materials:**

- 11 Aluminum Cans (beer, pop, soda, juice, etc.) any 12 or 16 oz. size will work.
- 4 Bottle caps (any kind).
- 1 Piece of Corrugated Cardboard 8” x 14”. (Grain running the 8” way.)
- Tape, (Double sided, cellophane and Duct)
- 2 Wire Clips
- Glue or 2-Part Epoxy.
- 3/32” Copper Coated Welding Rod, 8” long.
  (Music Wire or any other straight wire will work.)
- 4 - #4-#6 / 16-14 AWG Spade Electrical Terminals.
**Cutting Cans**
The building of these planes requires that the Tops and/or Bottoms of beverage cans be cut off. While you can decide for yourself which method you use to accomplish this, most builders use a Dremel® Tool in a fashion similar to that shown below.

What I’ve done here is taken a piece of board wood (aprox 12” x 15” x 3/4”) and to it I’ve attached (screw or glue) Two Blocks of wood (2” x 2” x 5”) and Two Rails of wood (1” x 1” x 10”)

Using a Hose Clamp, I’ve secured my Dremel® Tool to the board. The two guide rails are used to cradle the can.

A cutting wheel is used to cut the Bottom and the Top off the Cans.

In ALL cases, cut the Bottom off the Can FIRST, then cut the Top off. Get as much of the Can as possible.

Again, you can use any other method at your disposal to remove the Tops and Bottoms of the cans. Use whatever means you feel most comfortable with.
**ALWAYS USE PROTECTIVE HAND & EYE GEAR WHEN CUTTING CANS!**

**SEE ALL THE BUILDERS TIPS ON-LINE AT > www.bcair.com/BT**
Another Way Of Cutting Cans

Once you’ve selected which Cans your plane will be made out of, take one Can and hold it firmly at it’s bottom. Using your wire snips, cut through the ring at the top of the Can.

Now grab the ring with your wire snips and PULL the top off the Can. The top will normally tare off right where the Can begins to taper inward to the ring.

Continue PULLING until the top of the Can comes off. Then cut down the side of the Can with your scissors. Next use a smaller scissor to cut the bottom off the Can.

Use a straight edge, or a paper cutter to trim the edges smooth.

Trim Can to 3 5/8” x 8 1/4”

SEE ALL THE BUILDERS TIPS ON-LINE AT > www.bcair.com/BT
STEP # 1
You will need 11 Cans to make this Spaceship. Once you’ve selected which Cans you’ll be using to make your ship out of, take one Can and designate it as Can B-1.

Take a piece of paper 1 1/2” x 8 1/4” and wrap it around B-1. Turn B-1 upside down, on a table, and slide the piece of paper all the way down B-1, to the table, as shown at the left.

Using your magic marker, draw a line all the way around B-1, at the paper’s edge, as shown.

STEP # 2
Remove the Pull Tab from the top of the Can and remove the piece of paper.

STEP # 3
Use your X-Acto Knife and cut B-1 in half.

STEP # 4
Now use your scissors and cleanly trim B-1 on the line that you drew around it.
STEP # 5  Take another Can and designate it as Can **B-2**. **REPEAT STEPS 1-4.**

STEP # 6  
Take **B-2** and with your scissors, make one cut as shown.

Then take your X-Acto Knife and make several **scratches** along the side of **B-2** as shown.

STEP # 7  
Put some glue on the INSIDE of **B-1** and insert **B-2** into it as shown as the left. (The cut that you made in **B-2**, in Step 6, will make inserting it into **B-1** easier. The **scratches** will give the glue something to hold onto.)

This will become the Command Pod.

STEP # 8  
Take Template # 1, Page 14, and wrap it around **B-1** & **B-2**. Use your Push Pins and make Holes A through F.

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STEP # 9
Take BOTH of the Can bottoms, that you cut B-1 & B-2 out of, and cut the bottom circle out of them.

STEP # 10
Glue BOTH of the Can bottom circles to the Front of B-1. (First one, then the other right on top of the first one.)

STEP # 11
Take Two Electrical Terminals and trim them as shown. Glue them into Holes C & D in B-1. These are the L-s1 Laser Cannons.
STEP # 12

Take the two plastic insulators, from the electrical terminals, and glue them into Holes E & F, in B-2. (These will be the P-s4 Twin Ion Engines)

STEP # 13

After you’ve completed Step 12, set the Command Pod aside for now.

Cut TWO Template # 2, page 15, out of corrugated cardboard. Corrugation runs the 7 1/2” way.

Use a Push Pin to hold the template in place while you trace it’s pattern onto the cardboard.
STEP # 14

Cut the Tops & Bottoms off 9 Cans. Open the Cans up and trim them to 3 5/8” x 8 1/4”.

Can  Cellophane Tape  Double-Sided Tape  (Over Lap 3/8”)

STEP # 15

Now take Two (2) of those Cans and marry them together as shown here.
STEP # 16
Take the cardboard “wing” and glue it to the two Cans that you married together in Step 15 as shown here. Trim off excess Can.

Marry another Two Cans together and glue them to the other side of the “wing”.

Repeat Steps 15 & 16 for the other “wing”.

STEP # 17
Tape the edges, of the wing, with any kind of tape you like.

Define the wing braces with tape or draw them in with your magic marker.

Put a 3/32” hole in the center of the wing.
**WING ATTACHMENT PYLON (MAKE TWO)**

Oval on this end.  
Round on this end.

1 1/2”

Shape both wing attachment pylons as shown.

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**STEP # 19**

Take Two Bottle caps and put a 3/32” hole in the center of each cap.

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**STEP # 20**

Take a piece of 3/32” Rod, 8” long, and insert it through holes “A” & “B”, in B-1.

Working through the drink hole in B-2, glue the Rod to the INSIDE of the Can.
STEP # 21

When the Rod is secure to the Can, and will not move, insert one of the Wing Attachment Pylons over the Rod and glue it to the side of the Command Pod (Oval end against B-1). Then take one of the bottle caps, with a hole in it’s center, and insert it onto the Rod. Now install one of the Solar Array Wings onto the Rod end and hold in place with a wire clip or glue. Cut off excess Rod. (Repeat on other wing)

Make sure wings are straight and parallel with each other.

Cover Rod end and wire clip/glue with a bottle cap glued over them as shown.
STEP # 22
Cut out another round circle from one of the Can bottoms and glue it to the BACK END of B-2.

STEP # 23
Cut out the Main Transparisteel Viewport decal, page 14, and glue it to the FRONT of B-1. (Use your Black magic marker to darken the glue around the Viewport.)

STEP # 24
Take Two electrical terminals and glue them to either side of the Viewport as shown. (These are the Sensor Arrays.)
STEP # 25

Cut out the I-a2b Solar Ionization Reactor decal, page 14, and glue it to the BACK of B-2.

Your B. C. Air Originals TIE Fighter is now complete.
When printing out this template.

X to X MUST be 81/4’’