



Step By Step Instructions for building a realistic **B-2 Bomber**



Approximate Model Dimensions:

4.0 inches long

9.5 inch wingspan

(These are approximate, you can size it larger if you like!)

Tutorial build video found HERE:

https://youtu.be/gQRm_nBEisQ

Home of the 'Aluminum Air Force'

This document includes step by step instructions and templates for producing a realistic soda can model of the B-2 Stealth Bomber. Prior to beginning construction it is recommended that you review the directions and diagrams. You will need approximately 24-28 clean, undented soda cans of the same type to build your model. It is recommended that prior to using any cans for construction, you thoroughly wash the cans with warm water and dish soap for the best results while building.

Constructing these models requires the cutting of cans and the use of sharp tools. It is therefore recommended that children should refrain from building these models without the supervision of an adult. By purchasing these plans, the consumer assumes all liability for any injuries incurred during the building of these models.

It is recommended that the model parts be printed out on standard 110 lb. card stock and stored in an envelope or zip lock bag so that they may be used to build your models again and again. If you encounter any difficulties assembling your model, please feel free to email us at constructiontips@sodacanmodels.com.

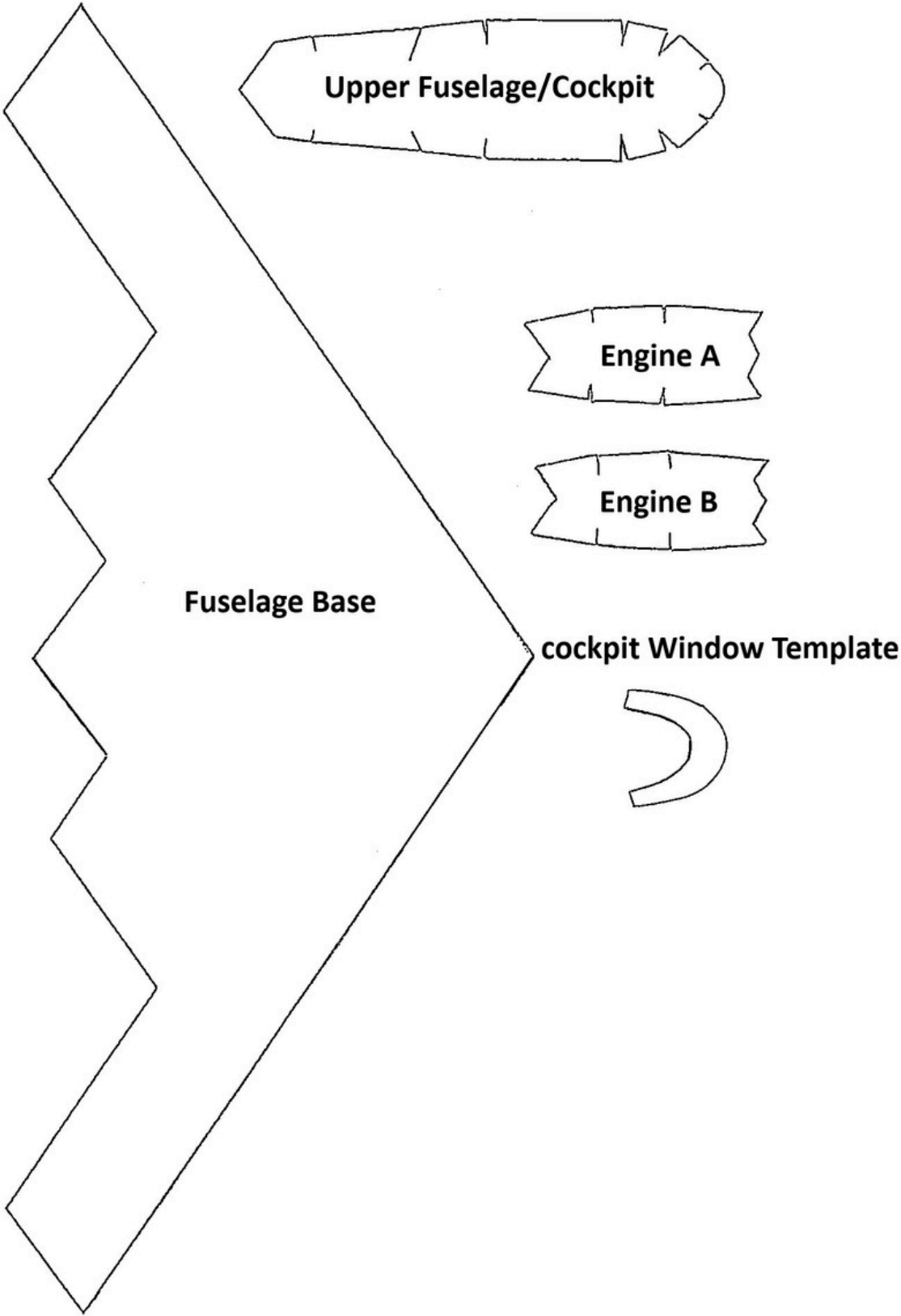
Tools You might need:

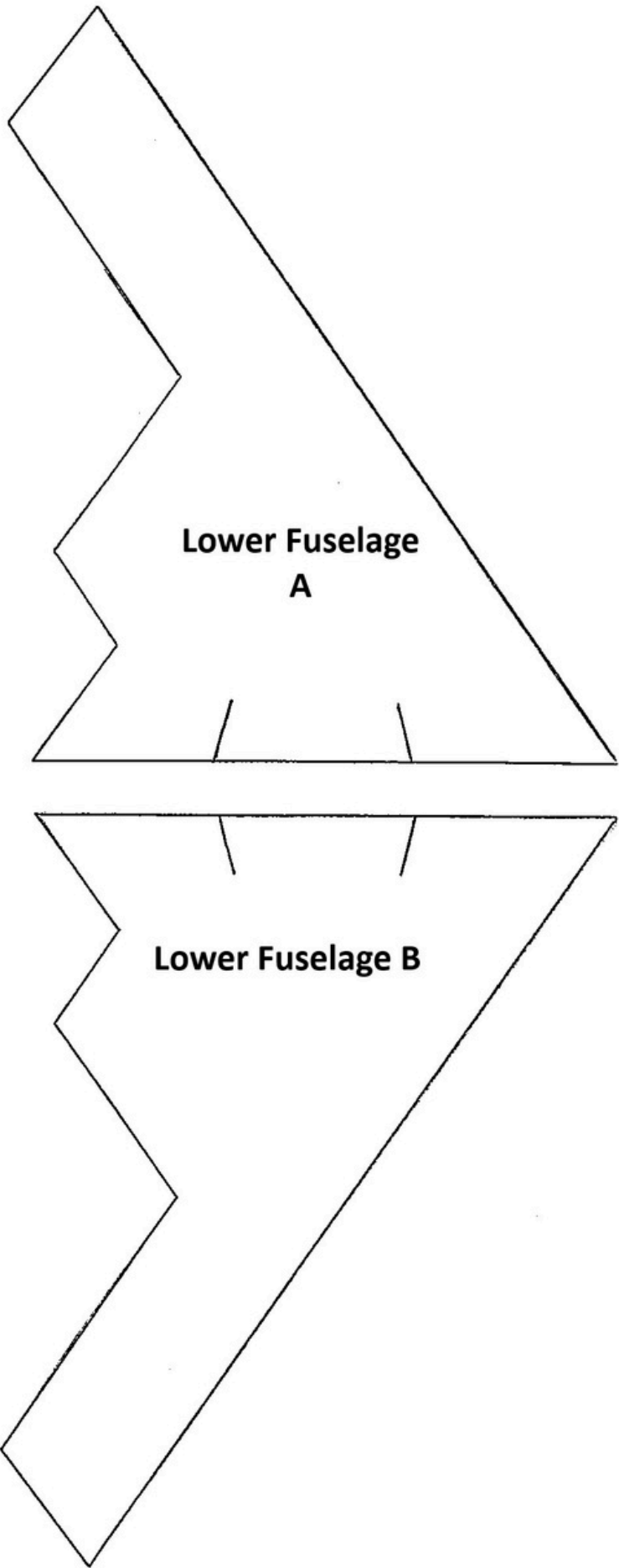
- Ruler or other straight edge
Fine Tipped Sharpie
5 inch precision scissors, hobby knife, Super Glue
such as Loctite Gel.

Something to round your can pieces. I use a wooden dowel.

Materials You might Need:

- 6 clean, undented soda or beer cans
- Template parts pages 1-2 in this document printed on 110lb card stock. (You can enlarge them to build your model larger if you like!)
- Base Templates downloaded as a separate file from your order
- 2mm craft Foam Sheets found on Amazon or any craft stores
- Internet access to view the build video on the Soda Can Models YouTube channel





I. Step 1: Can Preparation

The first thing that I normally do is pick out the cans that I am going to use, inspecting them for dents, dings or any blemishes that would take away from building a model. Once I have chosen my cans, I then wash them in the sink using dish soap and warm water. I let them sit on the counter for a few minutes with the opening facing down on some paper towels before I move onto the next step; shelling the cans.

There are a number of ways to shell your cans, I prefer to do it by using a Hobby Knife and a pair of scissors rather than attempting to cut them with a hand tool such as a Dremel. As shown on the picture to the right, I lay the can on it's side, poke the Hobby knife blade into the can and rotate it as I cut until the bottom comes off. I repeat this with the top of the can until only the middle part remains. I then make a vertical cut through the can on the seam of the can which is usually easy

to find near the nutrition facts. The last step is to cut off the edge of the cans at the top and the bottom about 1/8th of an inch to remove the access material from cutting the top and bottom off. When completed, your cans should look like mine to the right. Notice that the edges are completely smooth and the frayed edge has been cut off on both ends:



Once your cans are prepared, the next thing to do is to cut out your pattern included in these plans after printing them out on 110lb. Card stock. Place the pieces in an envelope or zip lock bag for safe keeping and then we are ready to move onto step two.

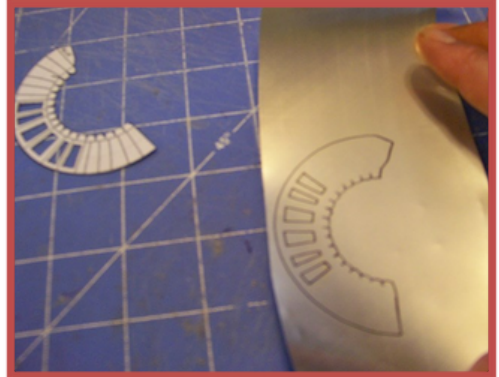
Step Two: Tracing the parts onto your cans

Once your template has been accurately cut out using scissors and a Hobby Knife, the next step is to trace the first parts onto your cans.

Place your cans with the print side down and place the first template onto the can. Hold it down as shown to the right and trace the part onto the can using a fine tipped marker or Sharpe. Remove the template piece to find the traced part ready to cut out from cans.

Now undoubtedly, you are going to find that some pieces such as the wings or even a part of the fuselage are going to be too large to fit on one can. No problem. The next thing we will show you is how to increase your can surface by gluing panels of cans.

Again you will need to use a good Super Glue while making this model. I have used Loctite Gel, Testors Super Glue and even Super Jet and those brands all work sufficiently. Testors brand is pictured below:



Step 3: Making Can Panels

Gluing panels of cans is an easy way to extend the working surface area of your cans. It also allows you to create these models and even build them larger if you like. You will need some cans, your super glue, and finally some heavy books or other materials to weigh down the can surface until the super glue sets.

To glue a panel of cans, start by placing your first can on a flat surface with the print side up as shown in the picture to the right. While you are holding it flat, take your super glue and make a line of beaded super glue from the top of your can to the bottom as shown in the second picture to the right.

Finally, while you are still holding down the first can, take a second can and put it into position over top of the line of glue that you made on the first can. You will need to carefully run your fingers across this new seam starting from the bottom and working your way up being mindful not to get glued. The point of doing this is to smooth out any bulges so that you have a completely flat can surface to work with. Once your new can panel looks like the one pictured to the bottom right, you must now weigh down your can panel until your super glue sets. The added weight will make your new panel stronger and easier to work with. I usually keep a stack of encyclopedias lying around and immediately place them over the newly created panel for at least 3-5 minutes until I am certain the glue has had adequate time to set. To make a larger panel, simply repeat this process by adding as many cans as you need until your can surface is long enough for the template parts in question.



See video assembly guide for building the B-2 Stealth Bomber by going to Soda Can Models YouTube channel and view the following video:

https://youtu.be/gQRm_nBEisQ

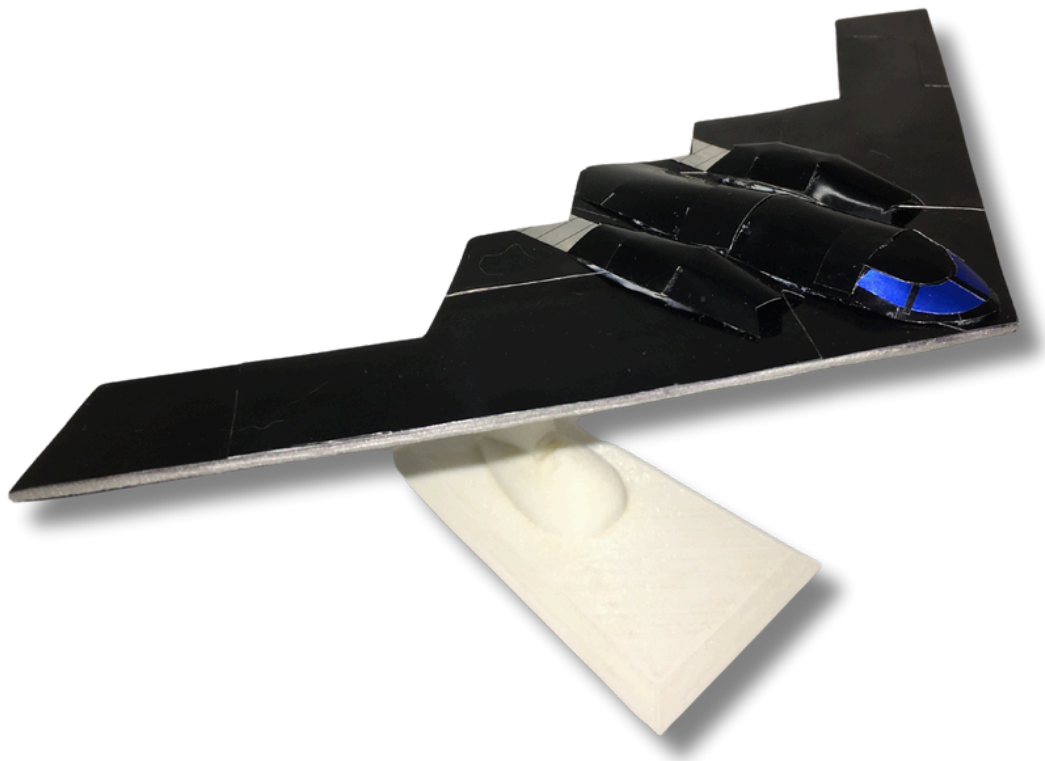
Note that the assembly instructions here may not follow the exact build sequence as shown in the YouTube video. You can move back and forth through the video as needed to see the build sequence detailed below.

- 1. Use the template provided to trace and cut out the fuselage base. This is shown starting at the 0:07 mark of the video.**
- 2. Reinforce the underside of the of this piece with can material until the piece is flat. Seen starting at the 0:28 mark of the video.**
- 3. As seen at the 0:45 mark of the video, use the template provided to trace and cut out the fuselage base from 2mm craft foam. Alternately you can use cardboard. Glue to the under side of the can fuselage base.**
- 4. Starting at the 1:10 mark of the video, trace and cut out parts lower fuselage A and B. Cut the slits on each piece as shown in the video and glue along the slits on a slight overlap so the pieces are slightly curved at the leading edge.**
- 5. As seen at the 1:35 mark of the video, reinforce the underside of each piece with can at the area indicated in the video.**
- 6. As shown at the 2:14 mark of the video, glue a strip of 2mm craft foam over the center of the existing foam piece.**
- 7. Next, as seen at the 2:21 mark of the video, glue the lower fuselage pieces into position as indicated.**
- 8. Use the template provided to trace and cut out the Upper fuselage/cockpit. Make all of the cuts in the piece as indicated in the video.**

- 9. Use a wooden dowel or other similar rounding tool to round the piece as shown. As seen at the 2:53 mark of the video, glue along each of the slits on a slight overlap to form the piece.**
- 10. As shown at the 3:10 mark of the video, glue 2mm craft foam to the underside of the piece along the edges.**
- 11. As seen at the 3:18 mark of the video, trace and cut out the canopy window template. Round the piece and glue to the front of the upper fuselage/canopy piece as seen at the 3:33 mark of the video.**
- 12. Finally, glue the upper fuselage/canopy into position on the fuselage base as seen at the 3:39 mark of the video.**
- 13. As shown at the 3:46 mark of the video, use the templates provided to trace and cut out Engine A and Engine B.**
- 14. Next, make the cuts on each piece as shown at the 4:03 mark of the video. Glue on a slight overlap on each of the cuts to form the Engines.**
- 15. Glue strips of 2mm craft foam along the edges of each engine piece as seen starting at the 4:18 mark of the video.**
- 16. Finally, as shown at the 4:34 mark of the video, glue the engines to either side of the upper fuselage/canopy piece as indicated.**
- 17. For some added detail, glue strips of silver or gray can behind the engines to simulate the B-2 Bomber's exhaust ports. This is seen at the 4:41 mark of the video.**

Congratulations, Your soda Can airplane B-2 Bomber is complete!

The finished Product



The completed B-2 Bomber built out of solid colored Pepsi Zero Sugar cans