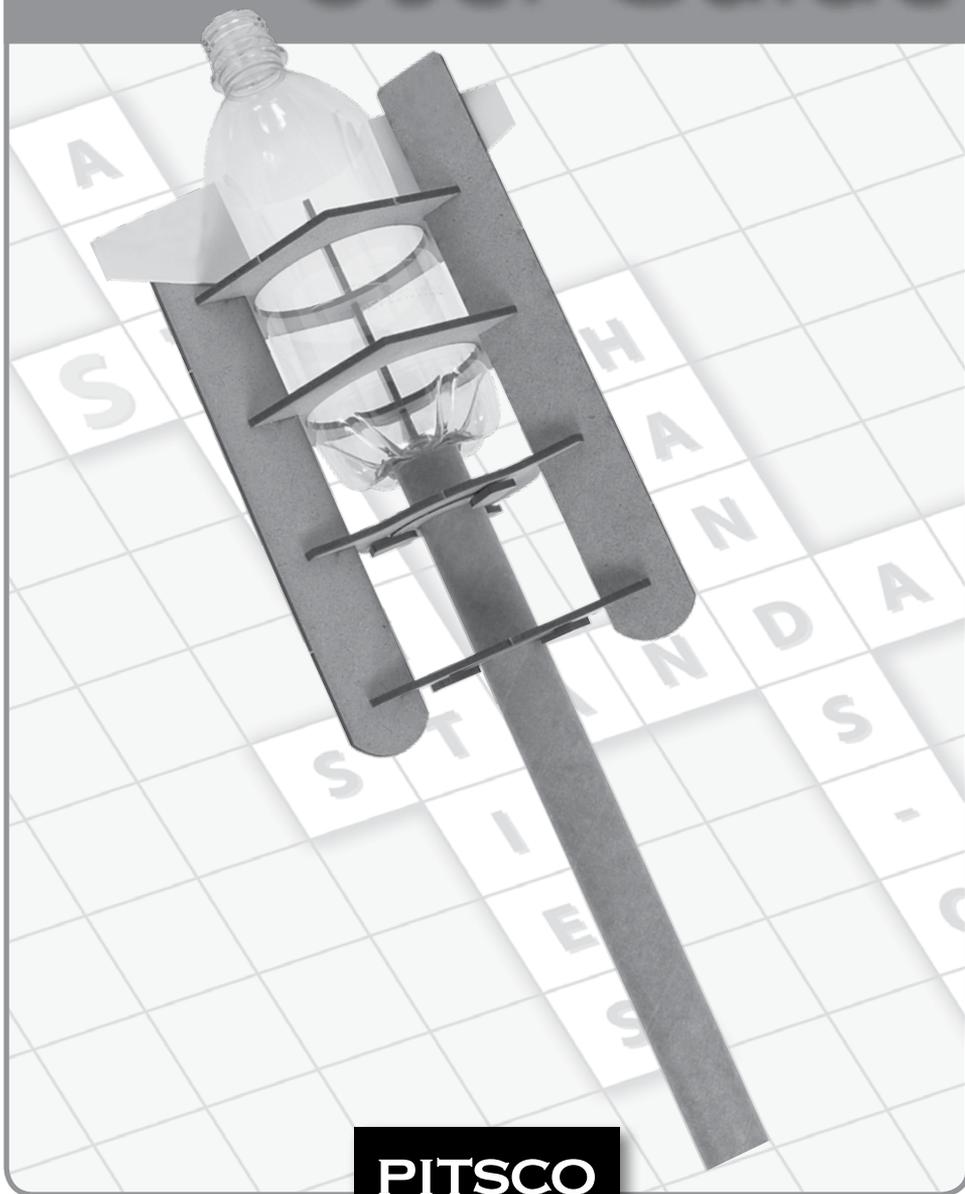


Rocket Fin Holder User Guide



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The Rocket Fin Holder makes attaching fins to your Stratoblaster Bottle Rocket, Big Oz Rocket, or another rocket made with a 20-ounce bottle a simple matter. Plus, it's the best way to keep the rocket tube straight.

Included Materials

- Wooden parts from a laser-cut sheet:
 - 3 supports (long and narrow in shape)
 - 2 bottle holders (hexagon in shape)
 - 2 large tube holders (three-pointed circle shape)
 - 2 small tube holder inserts (two-inch circle)
 - 6 insert tabs
 - 1 bottle stop
- 3 clothespins

Construction Materials (not included)

- White structure glue or CA glue
- Medium rubber band (optional)
- 2 to 4 medium binder clips or clothespins (optional)

Constructing the Fin Holder

1. Carefully remove the laser-cut parts from the wooden sheet. The outside frame and some of the part centers will not be used.
2. Take the two small tube holders and the six small insert tabs. On each circle are three half circles etched on one side. Glue the tabs onto these – if you wish, you can glue more of the tab onto the circle than what is etched as long as the tab doesn't protrude into the inside circle (Figure 1 on the following page). Set these aside to dry.



Figure 1

3. Find the three supports – one has arrows marked on one side. Place the large tube holders, bottle stop, and bottle holders in the notches on this marked support piece as shown (Figure 2). Make sure the arrows marked on the wooden tube holder and bottle holder pieces align with the arrows on the marked support.

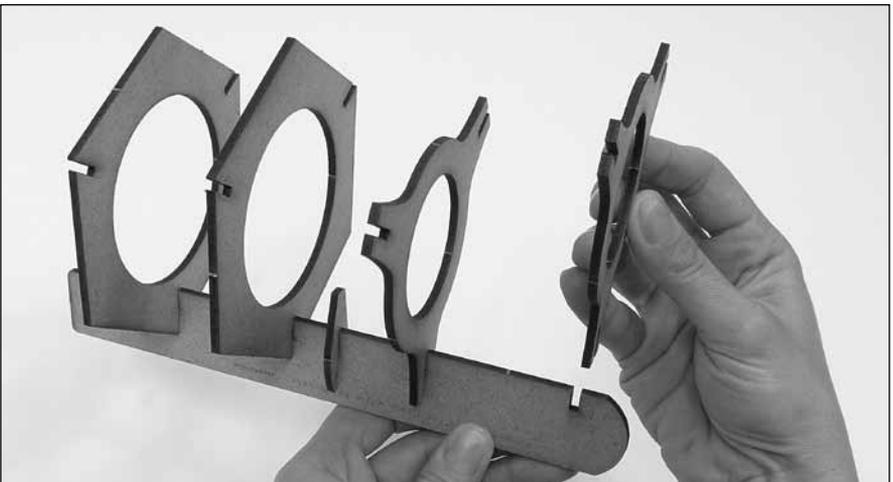


Figure 2

- Place the other two support pieces in the notches on the four holders (Figure 3). At this point, you might wish to hold the construction together with a rubber band.

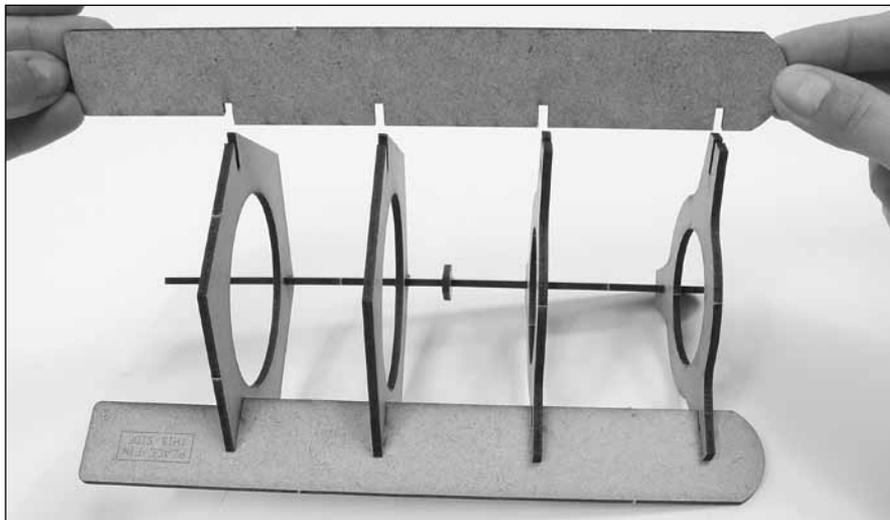


Figure 3

- Thoroughly glue all of the joints of the holder. Let the holder dry. If you used a rubber band, remove it.

Using the Fin Holder – Big Tube

The instructions below are for a water rocket with a large tube (such as the Big Oz Rocket). To use the fin holder for a water rocket with a small tube (such as the Stratoblaster Rocket), see page 6.

Note: It is recommended to use a tool such as The Pumper (51995) to pressurize the bottle and hold the bottle sides rigid while attaching the fins.

- Insert the bottle for your rocket, bottom first, into the end of the holder that has the two bottle holder supports (the supports with the bigger holes). Push it in until the bottle touches the bottle stop (Figure 4 on the next page).

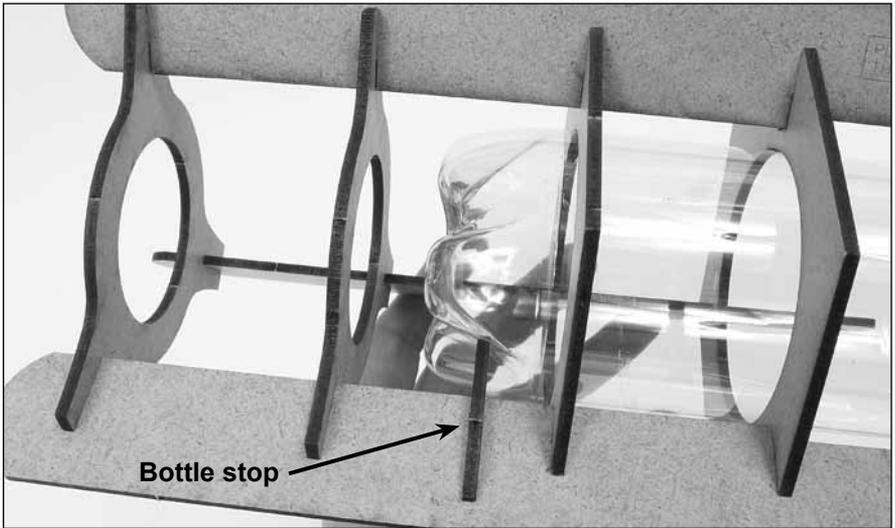


Figure 4

2. Insert the tube for your rocket into the opposite end until it touches the bottom of the bottle (Figure 5). Glue the tube to the bottle.

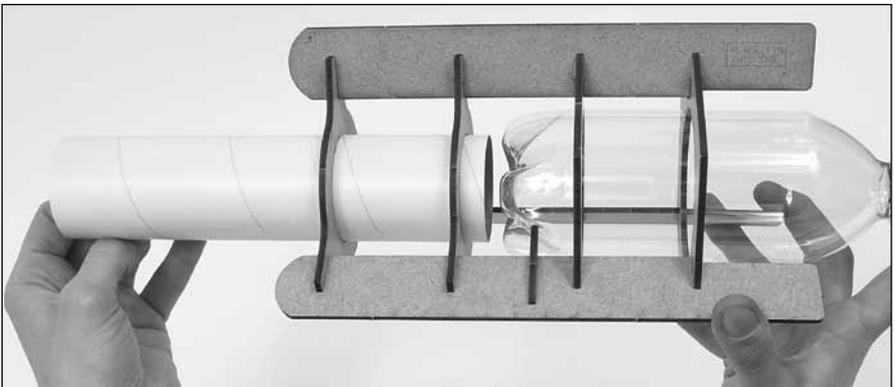


Figure 5

3. Using a clothespin, clip one fin to the side of the marked support piece as indicated on the piece (where it is labeled "PLACE FIN THIS SIDE"). Clip the other two fins on the other two support pieces on the same side as you did the first fin (Figure 6 on the next page).

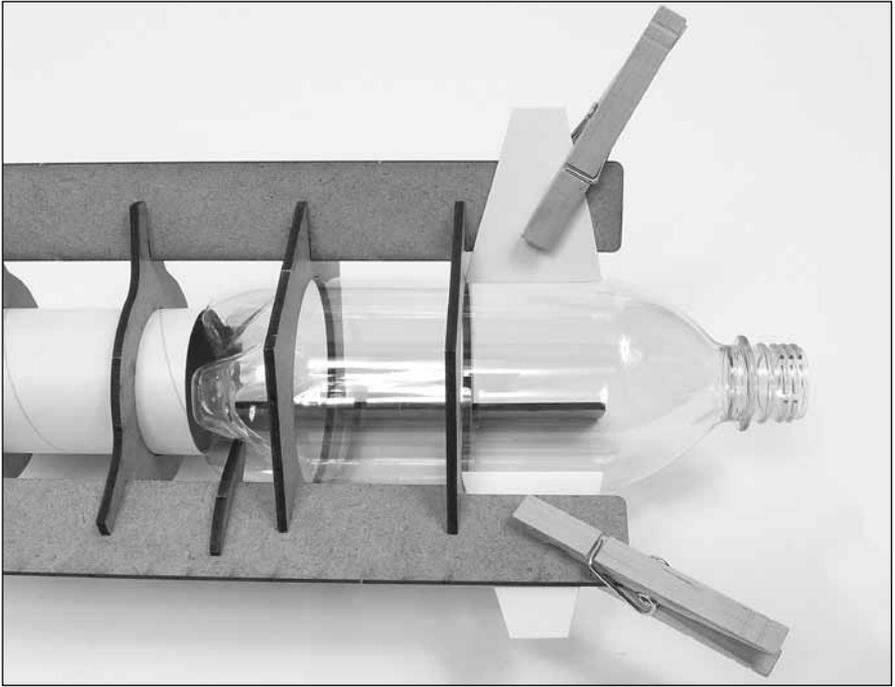


Figure 6

4. Glue the fins in place. When dry, unclip the fins and gently pull the rocket out from the bottle end of the holder.
5. Complete your rocket construction as indicated by the kit instructions.

Using the Fin Holder – Small Tube

To build a rocket with a small tube, such as the Stratoblaster Rocket, you need to add the tube holders with tabs into the center of the fin holder as shown (Figure 7 on the next page). The tabs will hold up the tube holders. If you wish, use binder clips or additional clothespins to hold these in place while building your rocket.



Figure 7

Continue to insert the bottle and tube to use the fin holder following the same instructions as for the large tube (Figure 8).



Figure 8

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