



F9 Shell Garage User Guide

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FORTNINE™

“Motorcycle shell garage!”

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F9 Shell Garage



WARNING: Build this thing at your own damn risk (that means you too, Americans!).

For the sake of liability, just presume that all tools are deadly, all adhesives are toxic, and all tents and tarps can get caught in a strong wind, lift you and your bike up into the sky and drop you onto the interstate during rush hour.

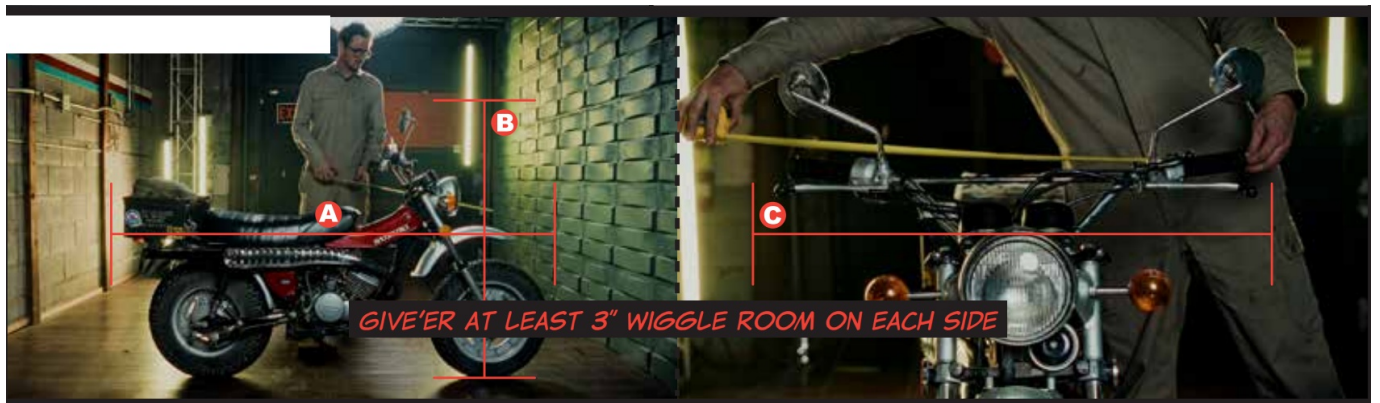
Measurements vary, depending on your bikes' dimensions.



LIST OF MATERIALS

- 1" ALUMINUM SQUARE TUBING (APPROX. 80')
- 3/8"X16 ALL THREAD (APPROX 12")
- (10) CORNER CONNECTORS
- (4) 3/8"X16 STAINLESS NUTS
- (2) 3/8"X16 STAINLESS NYLOC NUTS
- (4) WASHERS
- (4) RUBBER WASHERS
- (1) VINYL- TARP (WE USED ONE 141X18' FOR THE RV125)
- (1) 141-1-6611 VINYL CEMENT (320z)

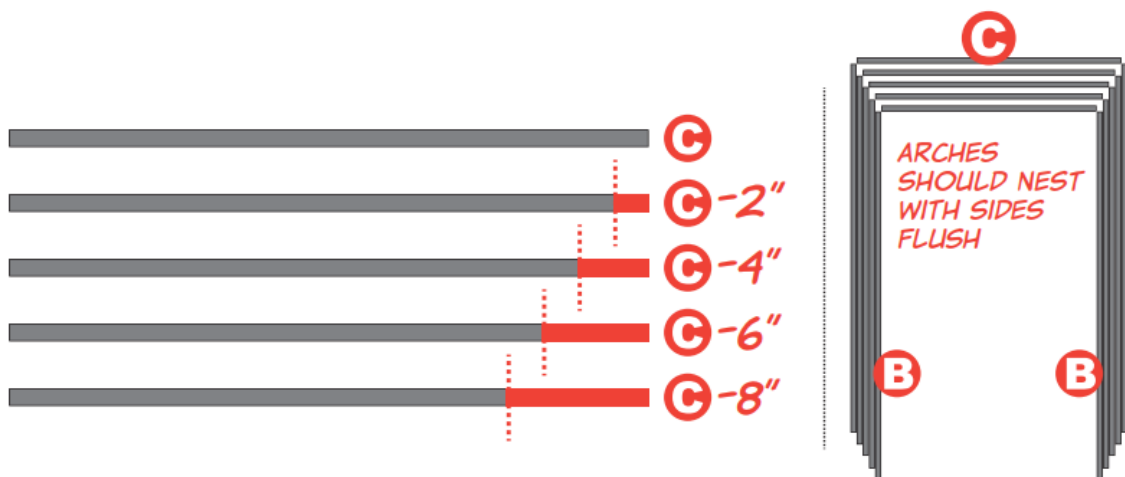
Step 1: measure bike



Step 2: cut tubes



You're making a series of five 'arches'. They're equal in height, but each is wider than the last by two inches.



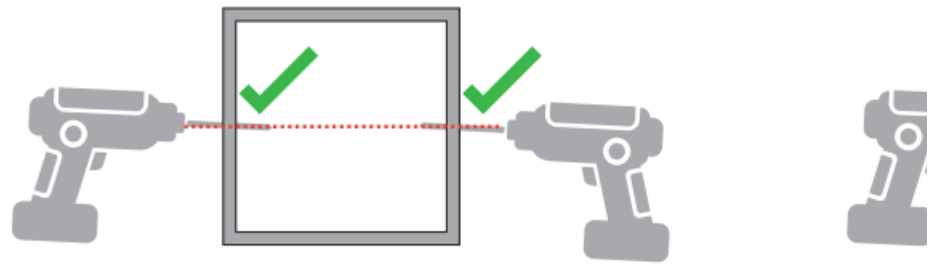
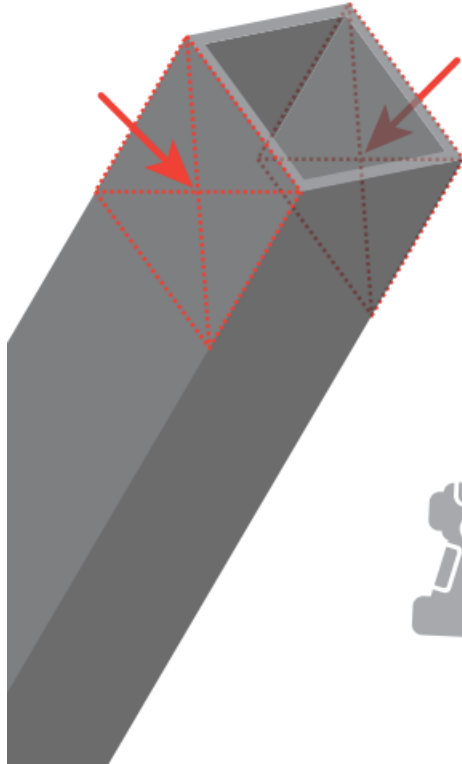
TAKE YOUR B MEASUREMENT AND COMPARE IT TO HALF OF A USE WHICHEVER IS GREATER. LET'S SAY IT'S B.



Step 3: drill tubes


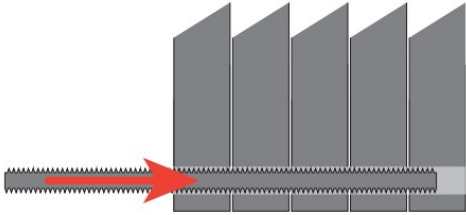

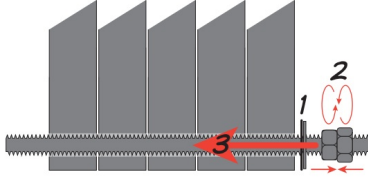





MEasure, mark and centerpunch at 0.5" from the bottom edge of each tube.




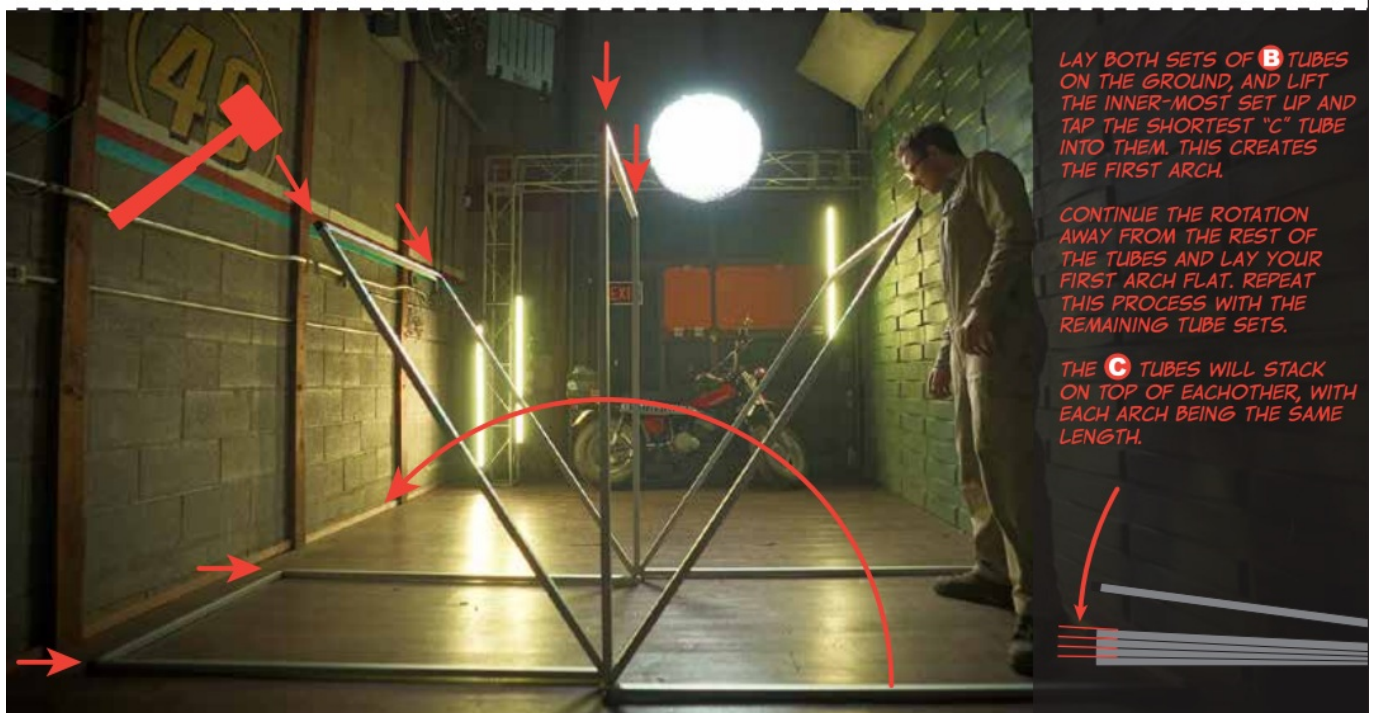
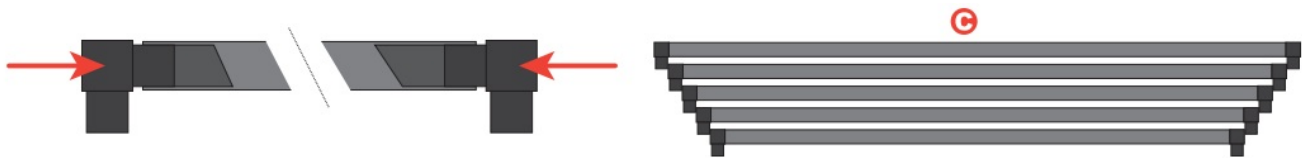
mark/drill both sides of each tube separately so they line up, unless you're using a drill press.

Step 4: connect pivot points

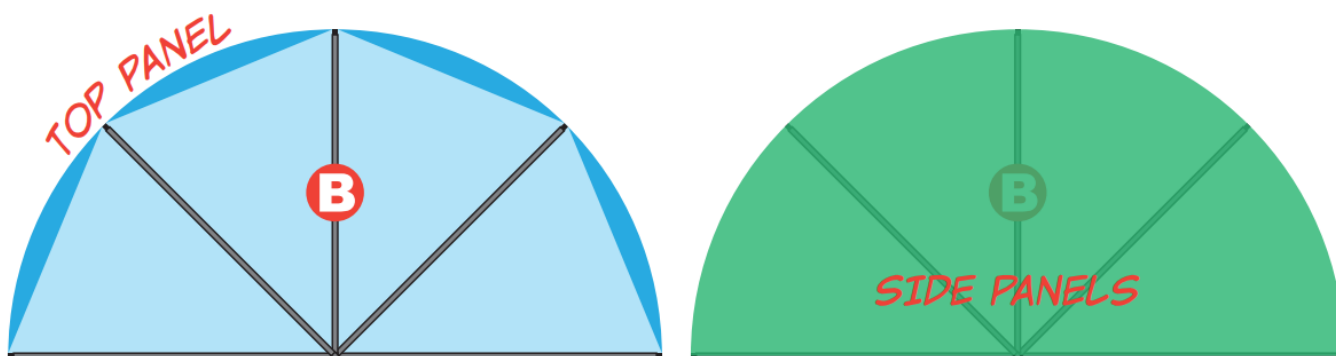
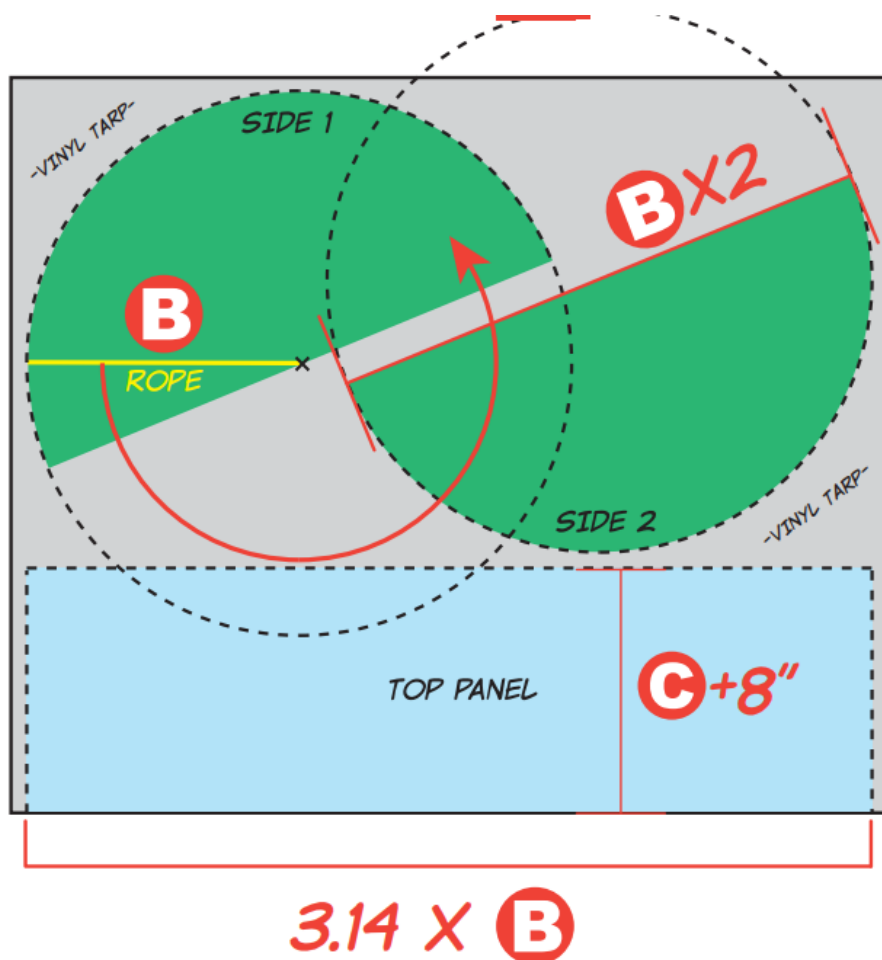
 	 	 
<p>USE YOUR DRILL TO FEED THE ALL THREAD THROUROUGH FIVE OF YOUR B tubes.</p>	<ol style="list-style-type: none"> 1. install washers, rubber one first. 2. thread the nuts on, then screw them together so they bind. 3. push the all thread in until the assembly bottoms out. 	<p>Install a second rubber loc nut. Tighten up. Trim the excess all thread and hardware.</p>

Step 5: connect arches

 Use a rubber mallet to tap the corner connectors into each end of all five C tubes. be sure that both have the protruding end at 90 degrees in the same direction.



Step 6: mark and cut the tarp



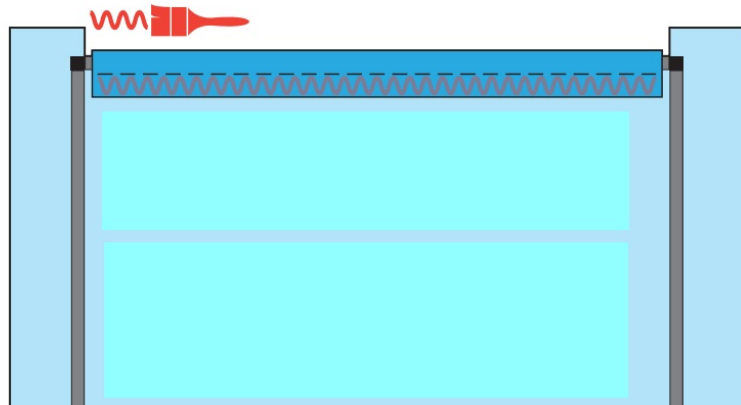
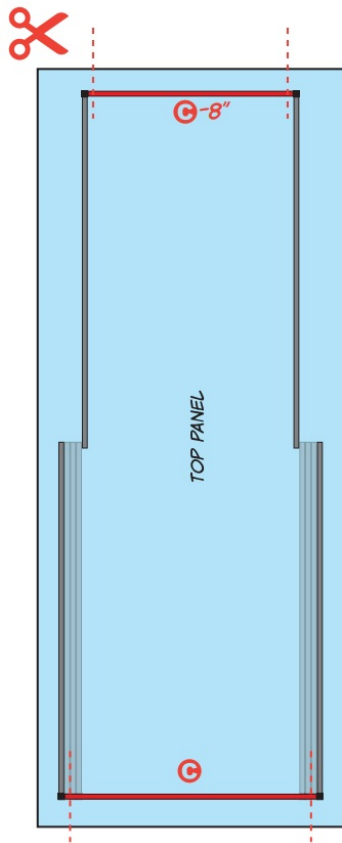
The frame makes a half circle when opened, and is its radius.

Cut a rope to the length of "b", and tape it to a point on your tarp where at least half the circle will clear the edges. PULL THE ROPE TIGHT, AND DRAG A MARKER TO GET YOUR CIRCLE(S). MEASURE FOR B X2 TO GET YOUR HALF .

For the top panel:

Multiply B by 3.14 FOR HALF OF THE CIRCUMFERENCE, THIS GIVES US THE LENGTH OF OUR TOP PANEL. THE WIDTH IS JUST OUR C TUBE MEASUREMENT, PLUS AN EXTRA 8" FOR OVERLAP ON INSTALLATION. IF YOU CAN'T FIND A BIG ENOUGH TARP, SMALL TARPS CAN BE USED FOR EACH PANEL.

Step 7: glue the tarp to the frame.



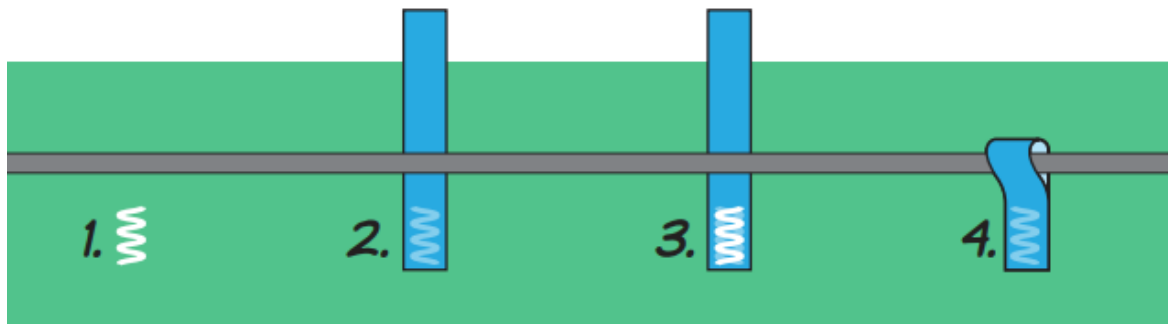
Cut and glue a flap to capture the widest and narrowest tubes. use a roller of some sort to really press these flaps down if you can.

NOTE: we tried all types of glue and tarp combos, and a tarp and HH-66 VINYL CEMENT is the only way to go.

Once the glue has bonded (see instructions on can) Flip the frame and top panel over and expand the frame into position.

Try to get the middle arch at 90 degrees, and the adjacent arches at 45 degrees. Measure your spacing so everything is as even as possible.

MARK the placement of each C tube on the underside of the top panel in case the arches move while you proceed with assembly.



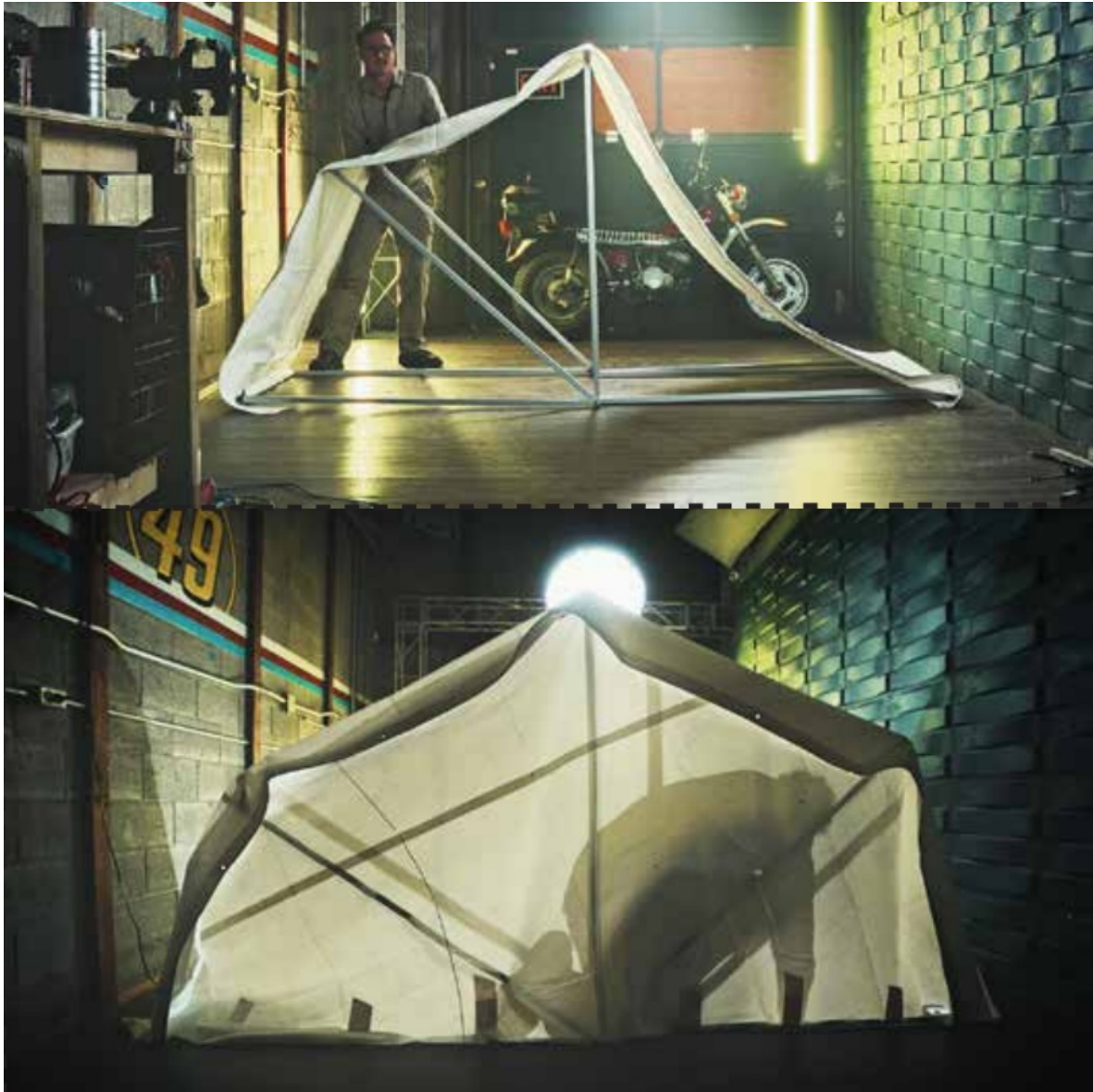
Cut a few straps out of scrap tarp material and loop them around the bottom tubes.

USE AS MANY LOOPS AS NECESSARY TO SECURE THE BOTTOM OF THE SIDE PANELS TO THE BOTTOM OF THE FRAME.

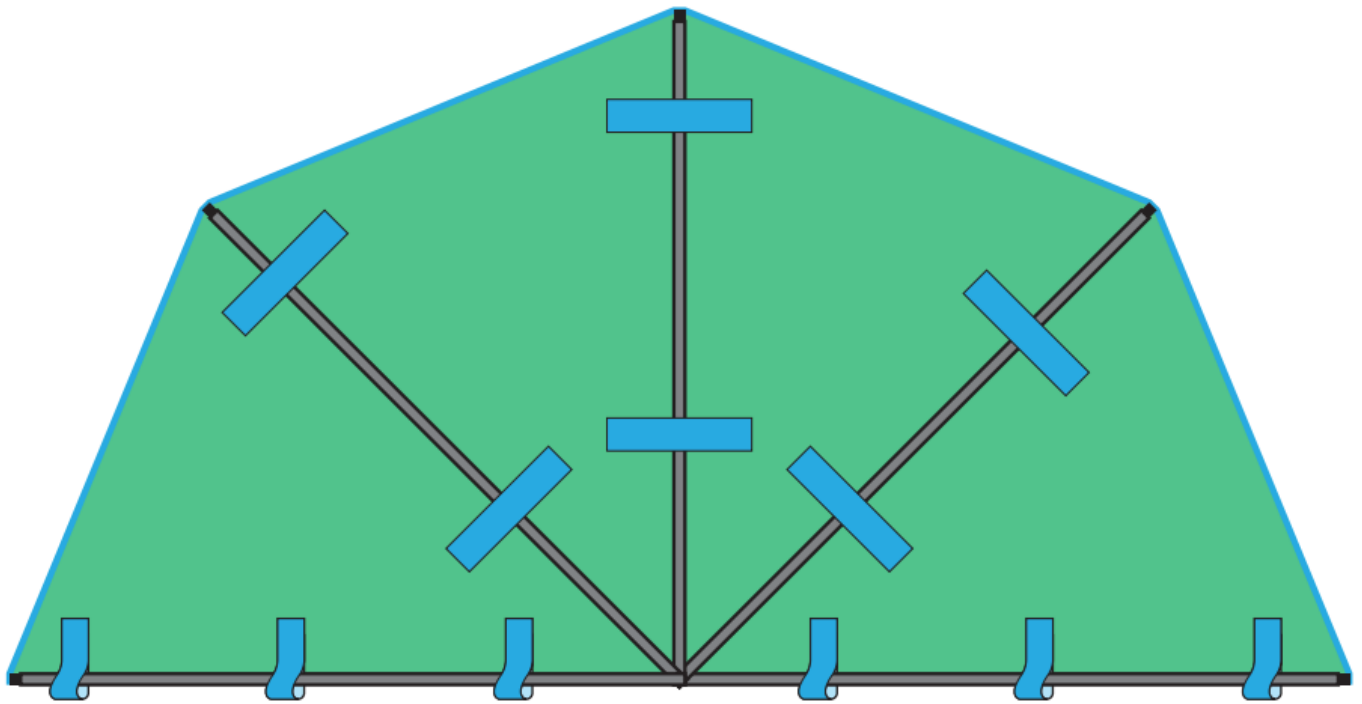
TO SECURE THE TOP PANEL TO THE C TUBES, SIMPLY GLUE THE STRAP OVER THE TUBE WITHOUT

LOOPING.

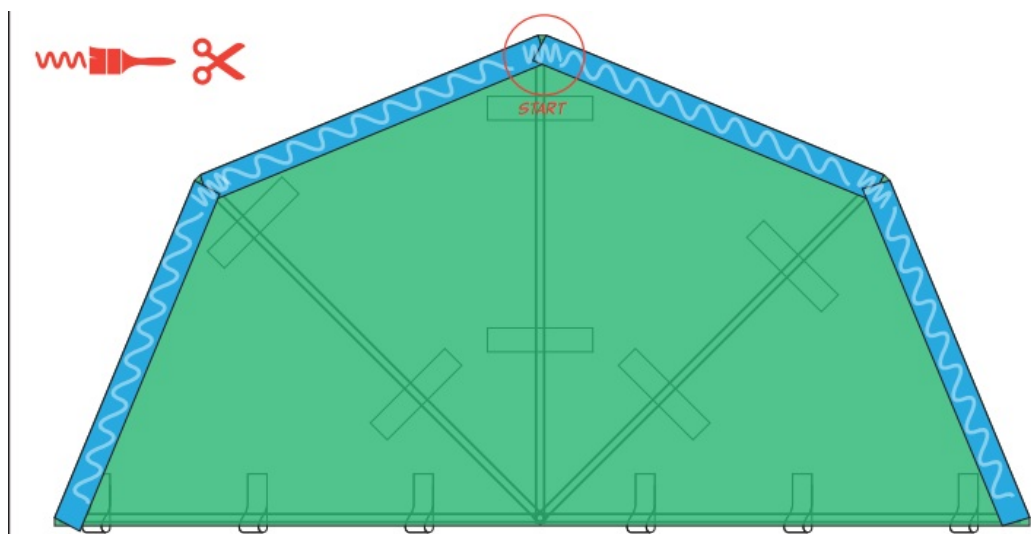
DO THE SAME FOR THE STANDING TUBES ON THE SIDE PANELS.



Inside view of either side panel



Cut and glue the excess top panel material down onto the side panels. Folding and creasing the tarp prior to cutting can give you some good guidelines for your cuts. HH-66 has a quick initial bond, so start with the peak of the side panel to hang the rest of it up while you work your way around the rest of the edges.




Step 8: REJOICE

This project is rewarding! your bike gets a custom shelter that keeps it safe from the elements while providing enough air volume to dry off when it's put away wet. That being said, the tarp and glue method is a real challenge at this scale. Check out fortnine.ca/en/how-to-build-a-motorcycle-shell-garage some of the other methods that fellow riders have shared with our community, and choose what's right for you! Thanks for watching FORTNINE!



Documents / Resources

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