



## BUILDING YOUR FINALCUTKING SPIDER DOLLY

I'm excited for you to get started shooting some epic shots for your films with the new FinalCutKing Spider Dolly. Everything you need to get started building your Spider Dolly is laid out in this instructional PDF. I highly recommend that you watch the step by step video which goes along with these instructions. Let's go over the tools and supplies you will need for this project.

You should expect this project to take you at least half an hour after you have gathered everything you need. If you have any questions where to get the materials, I have provided links below so you can purchase some of the items on Amazon.

### **TOOLS NEEDED:**

- Power Drill
  - 5/16 Drill Bit
  - 1/4 Drill Bit
- Tape Measure
- Small Towel or Cloth
- Saw or PVC Cutters



[BUY HERE for \\$9.49](#)



[BUY HERE for \\$46.88](#)

**SUPPLIES NEEDED:**

- PVC Cement (Clear)
- Black Flat Spraypaint



[BUY HERE](#) for \$6.50



[BUY HERE](#) for \$7.20

**HARDWARE NEEDED:**

(I used a 1/2 sch40 inch PVC)

- (1x) PVC Cupeling
- (4x) PVC 45 Elbow
- (6x) T PVC
- (8x) PVC End Caps (Plug)
- PVC Pipe at least 3ft in length
  
- (8x) 5/16 Hex Bolts 2.5" long
- (8x) 1/4 Washers
- (16x) 5/16 Hex Nuts



PVC T



PVC Cupeling



PVC 45 Elbow



PVC Plug



Hex Bolt



Washer



Stainless Hex Nut

### **SKATEBOARD PARTS:**

You will need to get 8 skateboard wheels and 2 bearings for each wheel. Normally, 1 set of wheels comes in a pack of 4 so you will need to purchase 2 packs. Bearings also come in a pack of 8 and you will need to purchase 2 packs. I have listed several different options of wheels you can purchase below. Make sure you get something in the size range of 50- 54. My dolly was built with 53mm wheels.

If you are on a tight budget, then go with the simple wheels. I personally purchased the higher end wheels so that I don't have any uneven dolly movement.



[BUY Wheels \\$5.85](#)



[BUY Wheels \\$24.86](#)



[BUY Bearings \\$10.17](#)



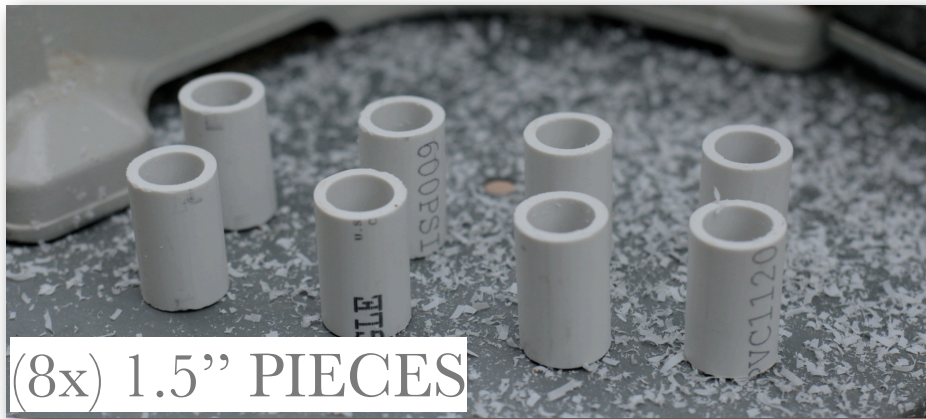
[BUY Wheels \\$10.49](#)

Now that we've gotten all of the boring stuff taken care of, let's **move on** to the fun part - assembling the dolly!



**THE ASSEMBLY:**

First, we are going to cut the 1/2inch PVC pipe into several pieces. You will need (2x) 5inch segments cut. After that is done, cut (8x) 1.5inch segments. You can either use PVC cutters for this part or a saw (which I recommend because you will get cleaner cuts).



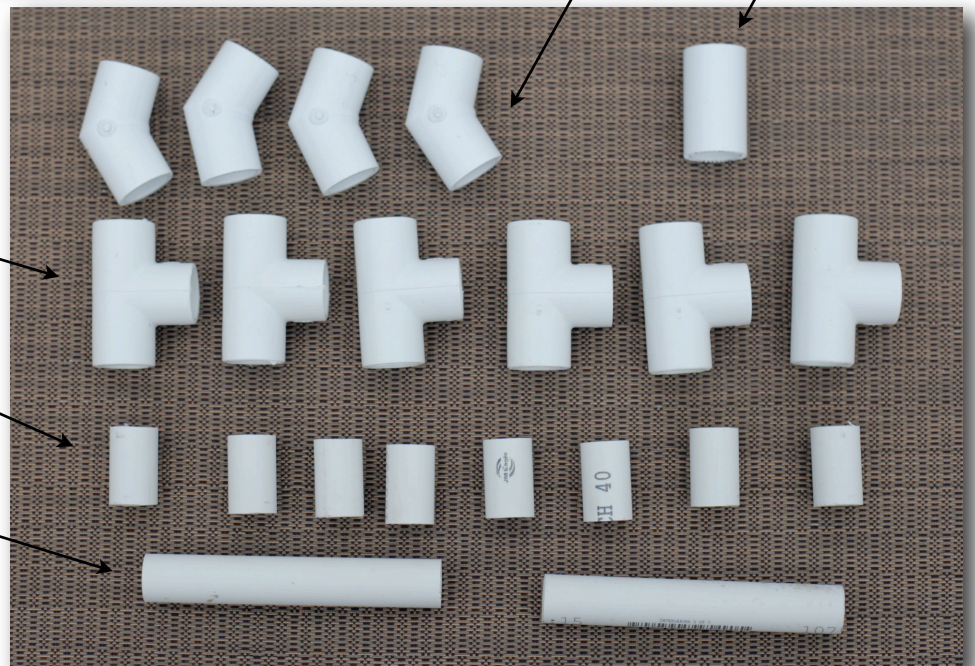
(4x) 45 Elbow

(1x) Cupeling

(6x) T PVC

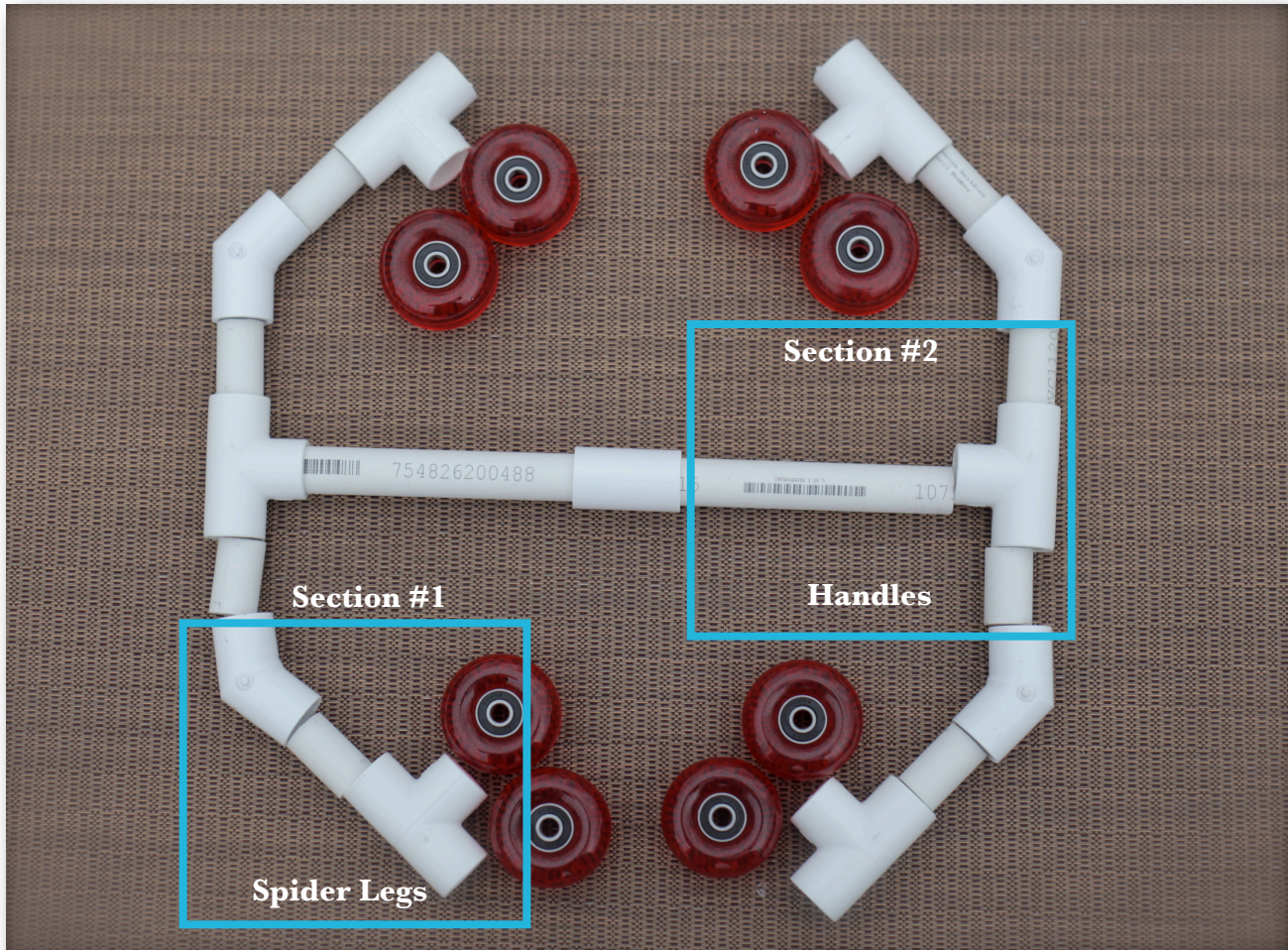
(8x) 1.5" Pieces

(2x) 5" Segments



## **PUTTING EVERYTHING TOGETHER**

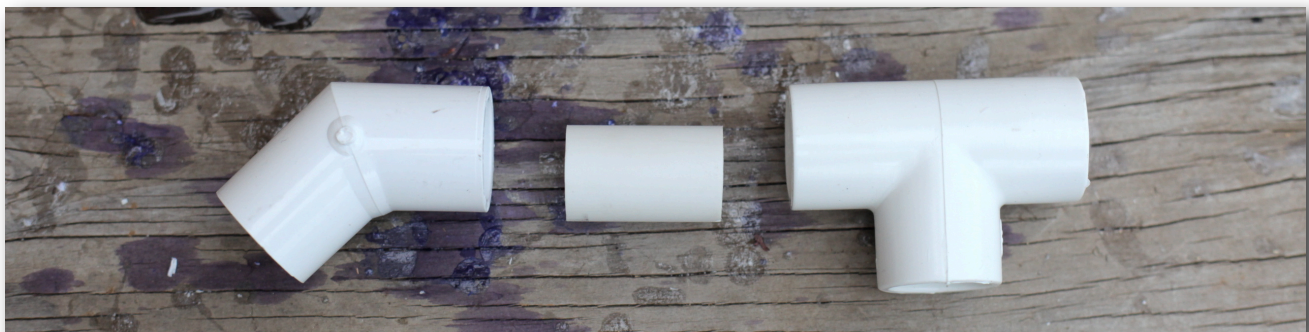
After you assemble the wheels by pushing the bearings into their slots, line up all your parts and match the picture below. This is how you will be putting all the items together.



### **GLUE TIP**

It is easiest if you assemble this dolly in tiny sections so that everything can be glued evenly together in the last step. There are 6 sections that need to be glued together separately.

This is what one spider leg assembly looks like. You will need to create 4 of these sections in total.

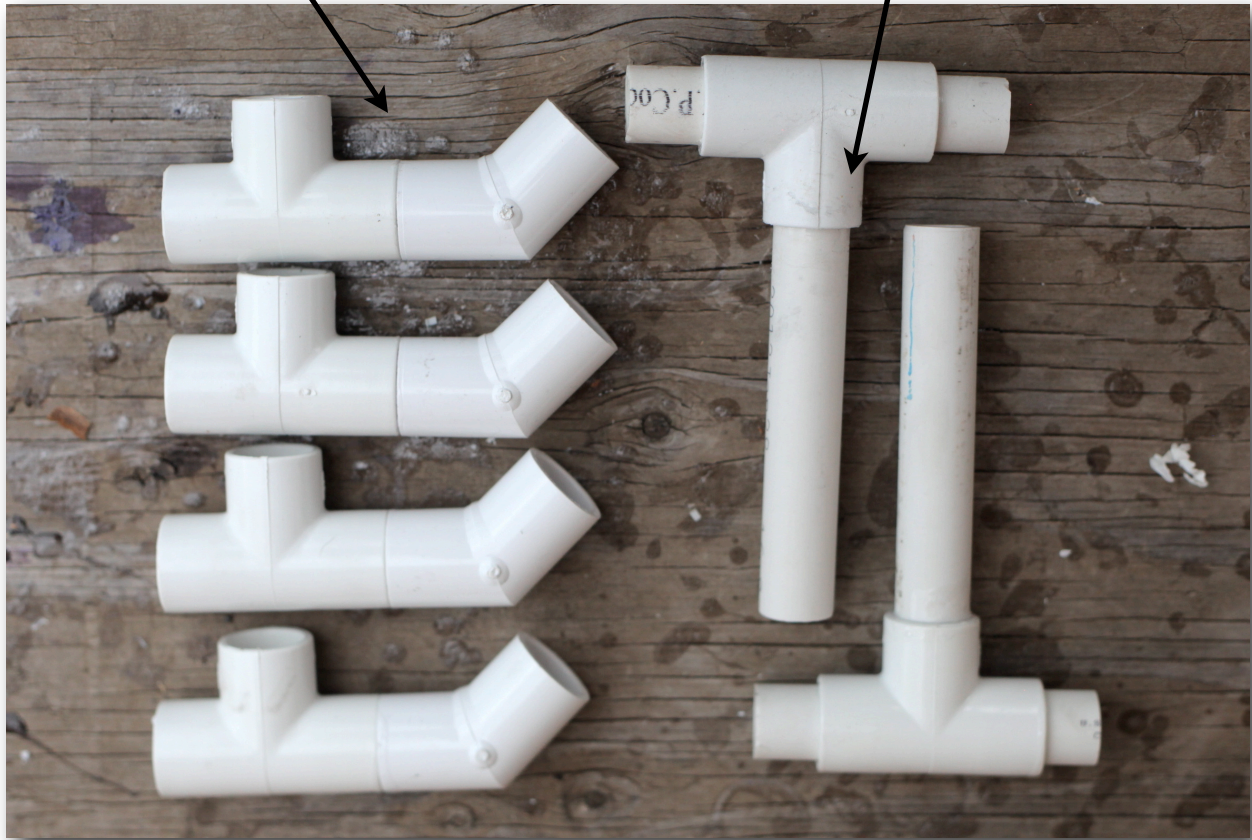


**Section #1**

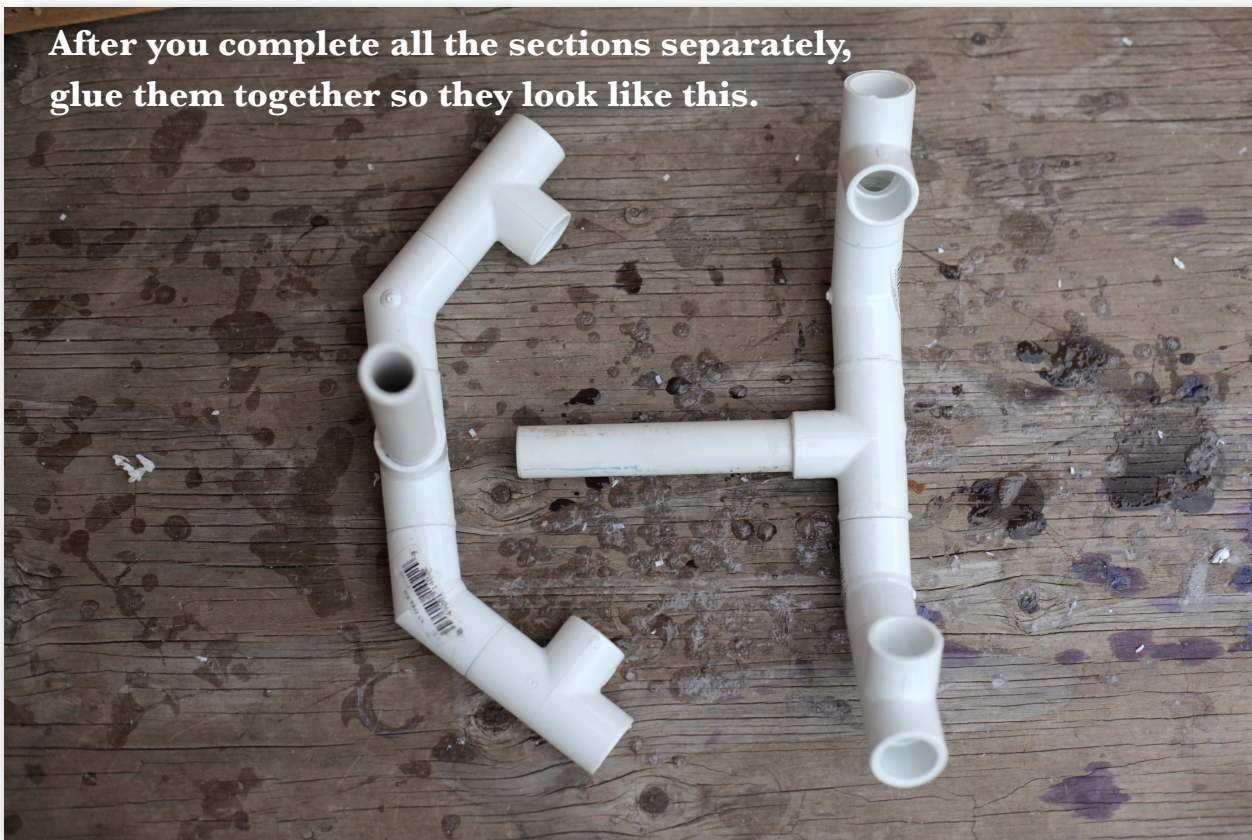
Glue these 4 spider legs like the picture below.

**Section #2**

There are 2 handles that will need to be glued like the picture below.

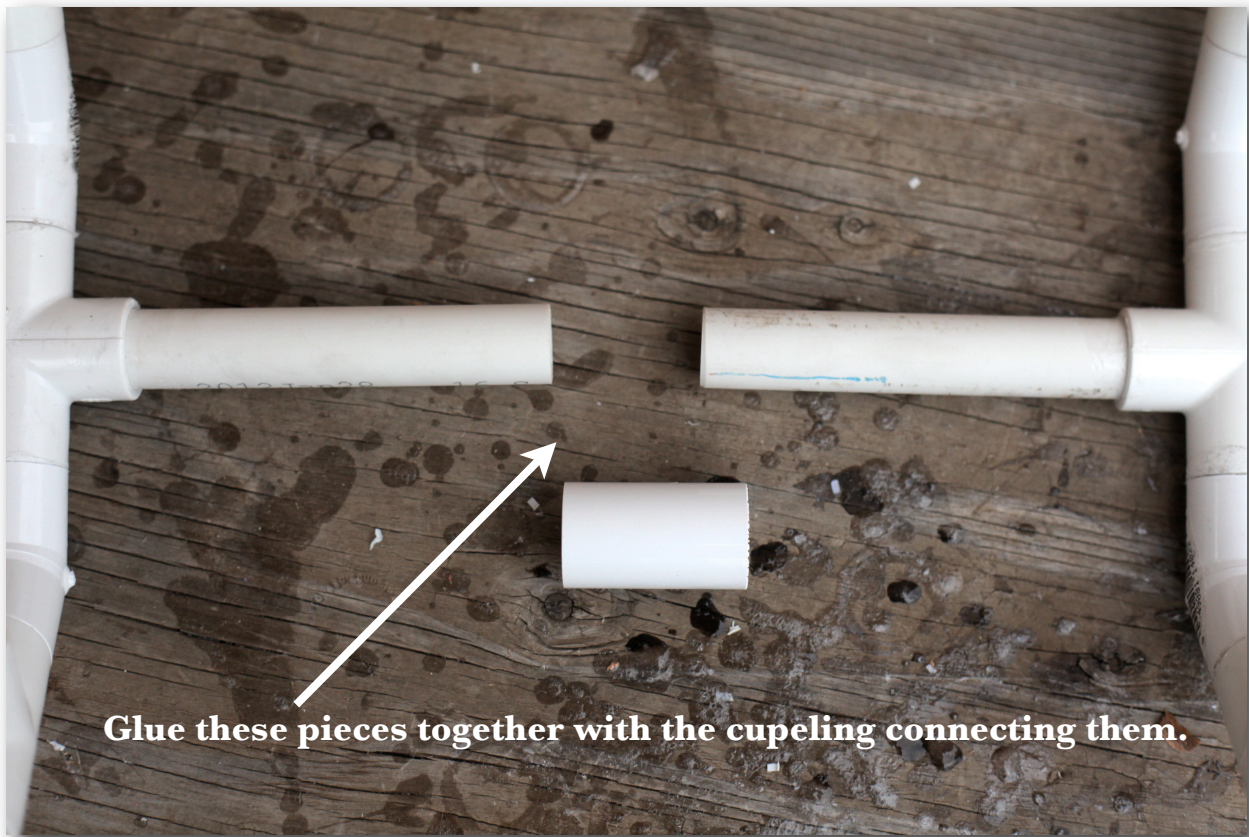


After you complete all the sections separately, glue them together so they look like this.



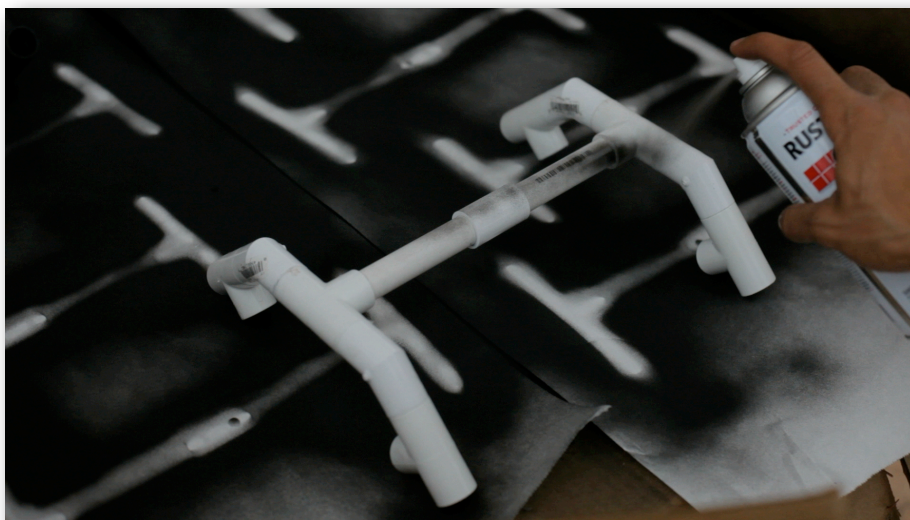
### **CONNECTING THE TWO**

Now that you have essentially created the two halves of the dolly, you can connect them with the cupeling. The reason the dolly is designed this way is so that the cupeling can be used to drill two holes into it. If the cupeling were not there, the structure would be very weak. You will see what I mean in a minute.



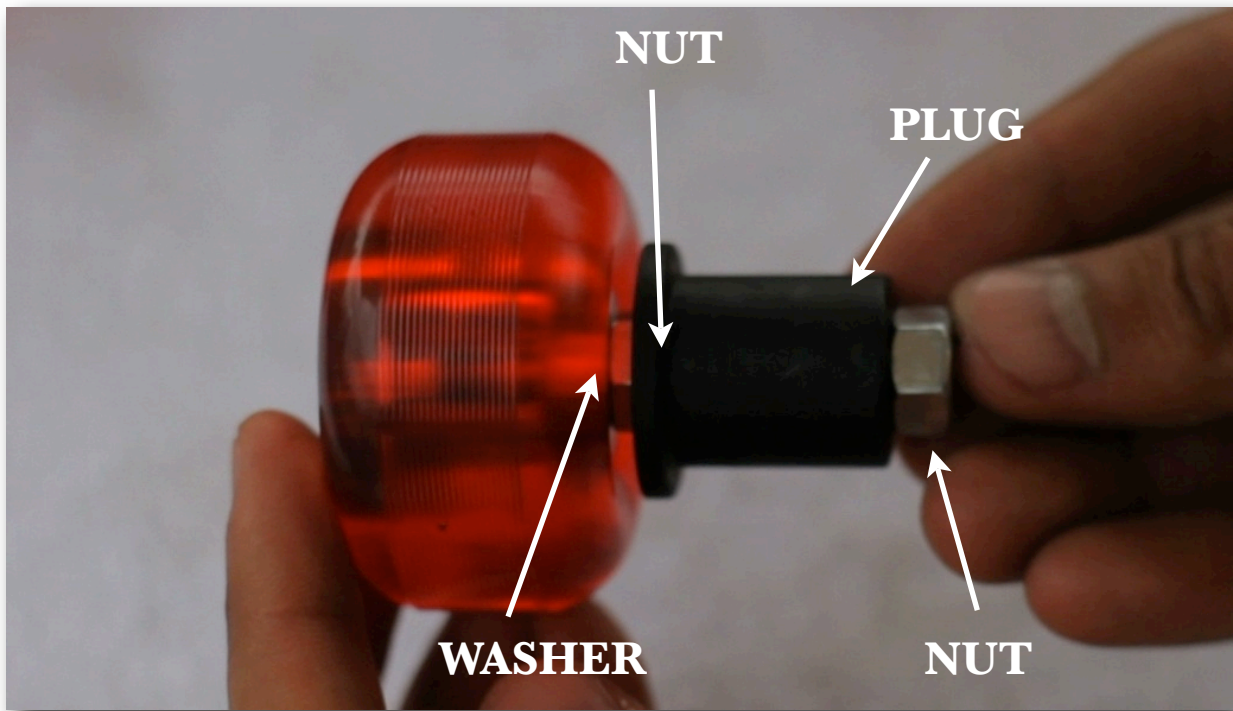
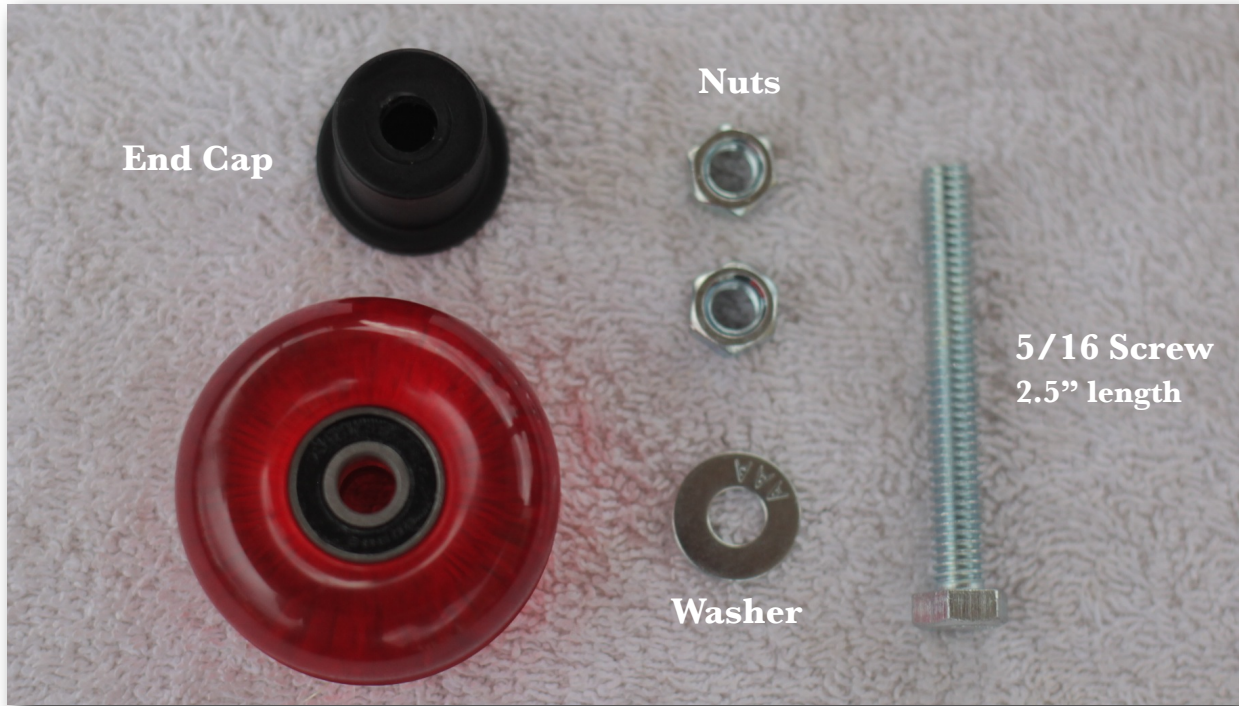
### **TIME FOR PAINT**

After the glue is able to dry for several minutes, you can start spray painting. If you want to be picky like I am, you can sand it first with 200 grade sandpaper so that the paint will actually stick to the PVC. I highly recommend this extra step.



## **CREATING THE WHEELS**

While your paint is drying, grab your wheel parts because that is what we are going to assemble next. Each wheel consists of (2x) nuts, (1x) washer, (1x) 5/16 screw, (1x) end cap), and a wheel with bearings. You will need to drill a 5/16 hole in the middle of the end plug. You can use a power drill, but I used a drill press for all my drilling to get a precise hole.





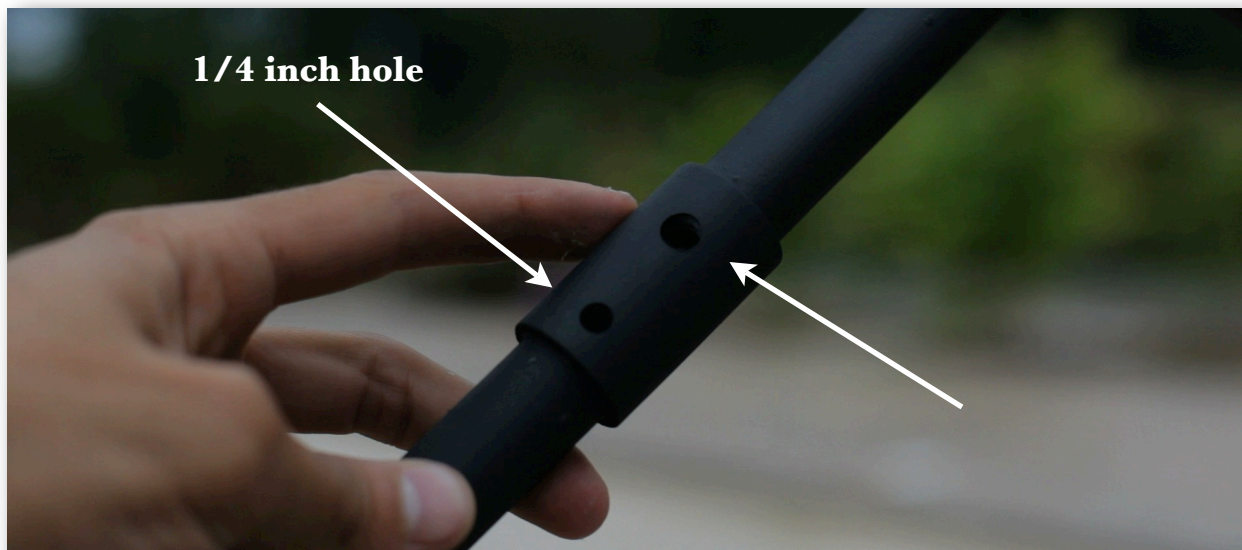
## **MOUNT YOUR WHEELS**

I don't glue my wheels onto the dolly in case I ever want to change them.



## **MOUNT YOUR CAMERA**

You will need to grab that power drill and put two holes into that cupeling that is in the center of the dolly. You should drill a 1/4" hole for standard sized cameras like a DSLR or camcorder. The 5/16 hole is great for mounting different types of tripod heads which can be useful for more variation in shots.



# NOW WHAT?



If you just finished reading through the dolly blueprints and decided that you don't want to build this yourself. I do have a couple **pre-assembled dollies** that I personally built. They come with everything except the camera and tripod heads. So if you are interested, you better order while the supplies lasts. You can find them at [www.FinalCutKing.com](http://www.FinalCutKing.com)

Otherwise, I hope you enjoyed the **FinalCutKing Spider Dolly**. I am sure that there are tons of other ways to make this an even better dolly. For the PVC Track, I use 1 inch which seems to work great. It also rolls great on smooth/flat surfaces. If you have any remaining questions about the dollies, leave them on the website in the comments section about the spider dolly.

I hope you enjoy the dolly and I can't wait to see the type of shots you create with this new gear. Feel free to share your videos or pictures of your self using the Dolly to [www.Facebook.com/theFinalCutKing](http://www.Facebook.com/theFinalCutKing)

Zach King

# A Little Extra

Oh, I forgot to mention the tripod heads. I use a Manfrotto tripod head which I have listed below. It has lasted me over 8 years and it is quality! You could also try some of these cheaper options including the [Fluid Head Mini](#) which is perfect for this dolly.



[BUY Tripod Head \\$184.95](#)



[BUY Tripod Head \\$40.70](#)



[BUY Tripod Head \\$19.95](#)



[BUY Tripod Head \\$124.99](#)