



1. First you can see all the parts lined up in the garage. Not much to see here, just my humble beginning.



2. All the parts are pre-cut here. Your "CUT LIST" is as follows: **(8)** EA 45" Pieces of Sched 40 PVC, **(12)** EA 24" Pieces of Sched 40 PVC, **(16)** EA 7.5" Pieces of Sched 40 PVC and **(12)** EA 1.5" Pieces of Sched 40 PVC.





**3. Take 8 of the 7.5" pieces of PVC and 8 of the 45 degree elbows. Make and Octagon BUT DO NOT GLUE IT YET. Take the other 8 of each and make a second octagon. Lay them on a flat surface like the picture. You can see that I left it crooked intentionally.**



**4. These have to be as STRAIGHT AS POSSIBLE. Using your foot, simply apply pressure until all the elbows are touching the ground and your octagons are straight**



**5. Here you can see both of them lying flat for the next step BEFORE YOU GLUE THEM.**



**6. Using a "Sharpie" or similar, and with the octagon lying flat, make a series of lines on both the elbow and the PVC pipe where it inserts into the elbow. Now when you glue it together, do one connection at a time and work your way around the octagon without skipping. Even if it moves a little you still know where it has to be just by LINING UP THE MARKS YOU MADE. This is the easiest way I have found to make sure it is flat and straight.**





**7. Now take all your 45" Pieces and glue a snap tee (Spears) on ONE END ONLY. The picture to the left is after step number 8 below. Sorry, I was not planning very well.**



**8. The picture to the left is of your 24" supports. You see how I have laid them out flat. Made my "MARKS" with my sharpie and then glued the OTHER END on using the marks as a guide. This will make sure they are both parallel with each other.**





**9. Take 3 of the 10' sections of gray electrical 3/4" conduit and connect them together. Have someone stand on one end or weight it down and bring the other end around. While applying downward pressure (to keep it from slipping at the bottom) make the connection to make a circle.**

**10. Take (4) of your 45" supports and (1) of your octagons. Center the octagon and then connect the (4) supports to every other straight section. Then snap them in place to the 3/4" gray conduit so they are fairly straight.**



11. Now it is time to make the TRUNK RING. Take one (1) Dura Tee and (1) Spears Tee and insert (1) of the 1.5" pieces of 3/4" PVC Pipe gluing it into one end. Now **MAKING SURE THE OTHER TEE IS PERPENDICULAR** to the first one, glue it on the other end of the 1.5" piece of PVC Pipe. Do this (12) times. (Set 4 aside for step 15)



12. Now take one of your 7.1' long sections of **POLY COLD WATER PIPE** **that you have left in the sun** to make it flexible. Take one of the 3/4" barb splices and apply a little oil or Vaseline. Tap it into one end using a hammer. Then bring the other end around



**(CAREFULLY)** so as not to fold it. If you have a vice it helps to use it to hold one end while you "wiggle" the other end into place.

**13. Repeat this for the second trunk ring.**

**14. Snap on the "DOUBLE" tees you made in step 11 to make (4) connections. Then snap it them onto the bottom 45" horizontal supports. They should snap on RIGHT AT THE EDGE of the 45" support tee.**



**15. Now take (2) of the 3/4" Gray Electrical PVC Conduit and make you interior LIGHT RING. Take your extra (4) Double Tees from step 11 and attach the light ring to the 45" horizontal supports.**





**16. Now it is time to make your 24" VERTICAL SUPPORTS. Same as above, Glue a snap on tee onto ONE END ONLY, lay them on a flat surface, attach the other tee, mark it and THEN glue the other snap on tee in place.**



**17. Snap your 24" VERTICAL SUPPORTS onto the bottom octagon using the unused spots from the horizontal supports. Then attach your TOP octagon.**





**18. STOP!** BEFORE YOU GO ANY FURTHER. THE PICTURES DON'T SHOW THE SECOND TRUNK RING INSTALLED YET. ATTACH YOUR DOUBLE TEES TO IT AND SLIDE IT OVER THE VERTICAL SUPPORTS NOW. OTHERWISE YOU WILL HAVE TO TAKE IT ALL APART TO INSTALL IT LATER. IT GOES UNDER THE TOP RING. SEE BELOW







19. Here is an overhead shot of how your vertical supports should line up.



20. Now begin attaching (4) more of your 24" vertical supports at the outer edge.





**21. Take your last (4) 45" horizontal supports and attach them to the top octagon and vertical supports.**



**22. Now add the last (4) vertical supports near the center of the horizontal supports.**





**23. Take the last (3) pieces of 10' Gray Electrical PVC Conduit and make your top ring same as you did before. Then attach it to the upper horizontal supports.**



**24. THIS IS NOT A STEP. Notice anything here?**

**Yes, this is the step from above where I had to remove the top ring and all the vertical & horizontal supports to install the upper trunk ring. You can see here how it attaches to the underside of the upper horizontal supports.**



**25. VOILA!!! You are done. Now you can paint. I find it easier to paint once it is all assembled rather than all the pieces on the floor. The paint tends to scrape off where you snap the supports on anyway. Since the only purpose of the paint is to hide the white pipe, it really doesn't matter. Your choice though.**