



# 20 ft RGB Pole Tree Instruction Manual



# What you should have

1. Telescopic Pole (1)
2. Arc tubing (4) for Lower Ring

3. Numbered bars or spokes(8)
4. Center plate (1)



5. Top Ring (1)

6. Hardware and wrenchs

- a. Hardware

- i. 20 large bolts with 4 lock washers
- ii. 4 small bolts, 4 nuts, 4 washers and 4 lock washers
- iii. 12 thin Allen bolts

- b. Tools

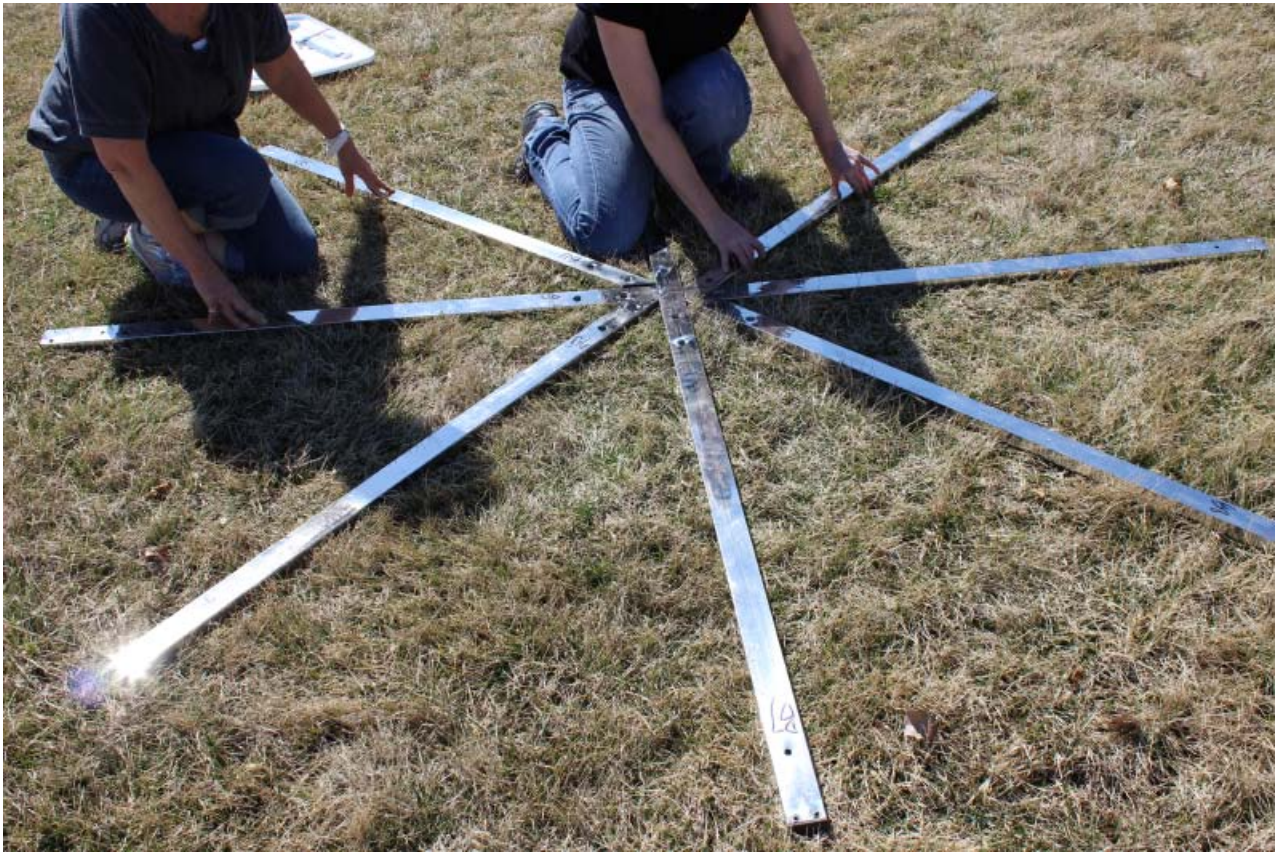
- i. Allen wrench
- ii. Wrenchs - (1) 15/16" and (2) 13/16" **Wrenches not provided**
- iii. Cable ties **Not provided**

7. Light strings (32)

8. Guy wires (4)



Lay the spoke pieces of your base down in clockwise order like in the picture below.



Match the bottom plate numbers to the numbers on the spokes and bolt the plate onto the spokes, but do not tighten bolts.





Do not tighten the bolts for the center plate at this time.



Match Lower ring pieces to the corresponding spoke pieces, they are labeled.





Match the labels and join the ring pieces with the spoke pieces using the Allen screws.



Tighten screws.





Complete the lower ring.



Tighten bolts on center plate at this time.





Attach the telescopic pole to the bottom plate.



Put the lockwasher in place, then insert the bolt for all four hole on the telescopic pole.



Tighten bolts.



Place the top ring in place at the top of the telescopic pole.





Insert screws from top.



Use the lockwashers along with the nuts.





Tighten nuts. Note: two wrenches are required for this step.



You should now have a solid standing structure that looks like this:





Attach your light controller to the telescopic pole. Be sure to mount the controller at least 2 ft from the ground to minimize the potential for water to enter the enclosure.



Your controller will have 4 cables coming from it that are labeled 1, 3, 5 and 7. These are the DATA cables. These will correspond to the labels on the spokes of the lower ring. So, cable 1 will be placed near the edge of the ring on spoke B1. Cable 3 will be placed near the edge of the ring on spoke B3 and so on.

If your cables are labeled 1, 2, 3, 4 instead, match them respectively with B1, B3, B5 and B7.

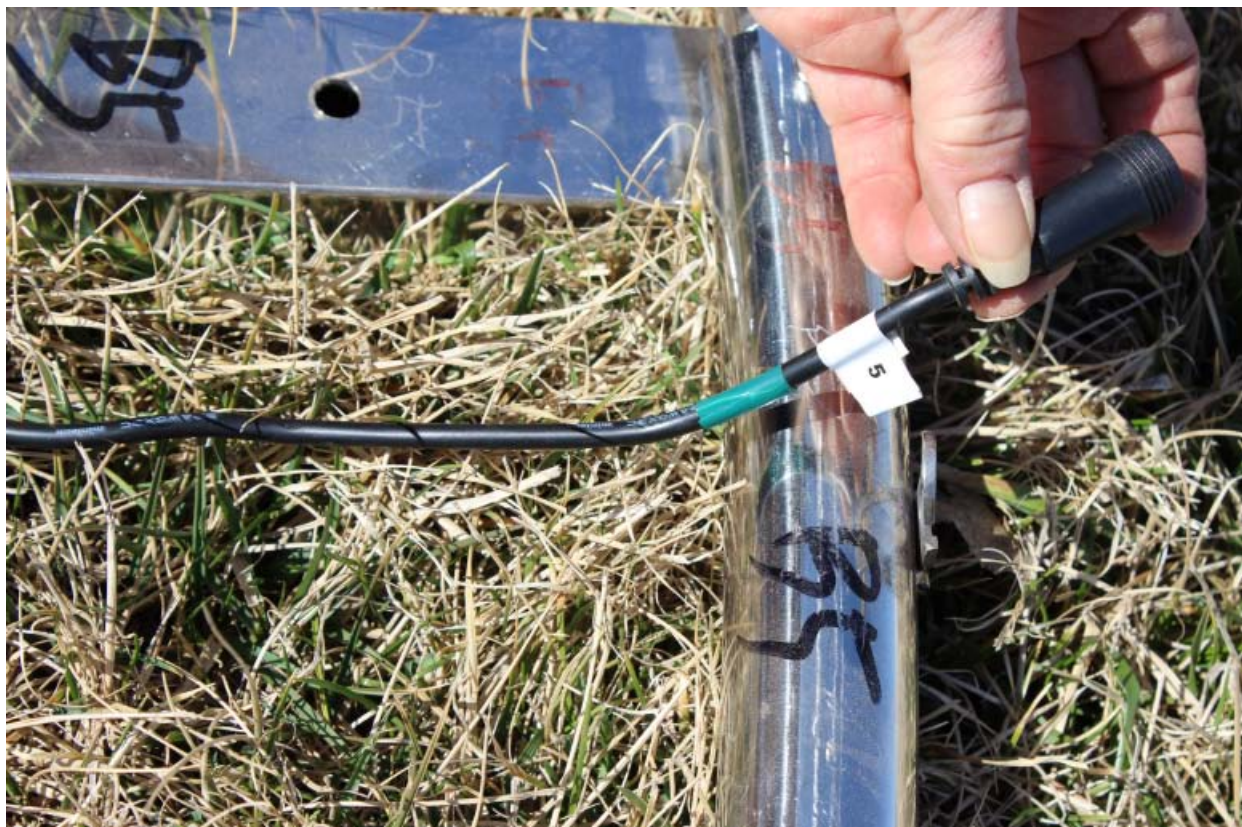
The rest of the cables are POWER cables. We will discuss them later.



Place the cable labeled "1" with the spoke labeled "B1".



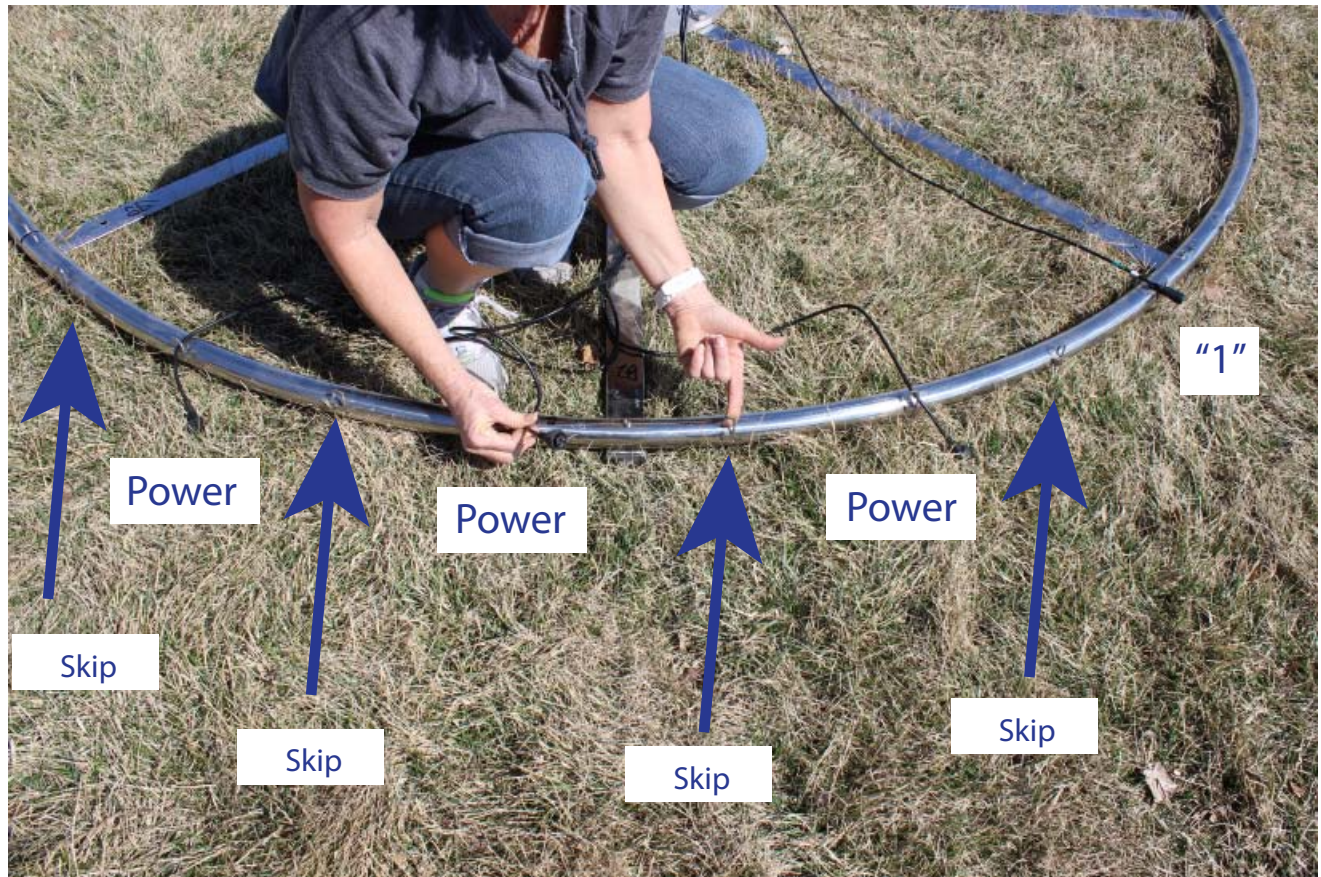
Place cable 3 by B3, 5 by B5 and 7 by B7.





Notice the hooks near the edge of the lower ring. These hooks will connect our strings to the tree. Each cable coming from the controller will be assigned to a hook. **The cable doesn't go in the hook**, but needs to be placed near the hook. Not every hook will have a wire from the controller that goes with it. Only every OTHER hook will have a wire near it.

We have already placed 4 of the cables, the ones labeled 1, 3, 5 and 7. Now place the rest of the cables (the POWER cables) near the remaining hooks. The power cables are in groups of 3. The first group of 3 go near the cable labeled "1". Check out the picture below:



Do the sections for B3, B5 and B7 the same as above.



Looks like this with all the cables laid out:



Now grab the Tee cables. These go on the end of every POWER cable (NOT on Data 1, 3, 5 or 7).





The Tee cable connects to the male POWER cables.



Connect the male POWER cable with the female at the "bottom" of the Tee and tighten the connection.





Looks like this when finished:



Connect two strings together.





Then connect the male end of the two strings into the female connector labeled "1".



Take the center of the two strings (where you joined them together) and cable tie it to the nearest loop on the top ring. Each pair of strings should take up the space of two loops.





Now connect the female connector on the two strings to the male end of the Tee connector nearest to the data connector labeled "1".



Repeat the process for the next 6 strings, but instead of connecting the first string to a single female cable (like Data 1), connect it to the remaining female connector on the Tee from the previous step.





Finish the first 8 strings.

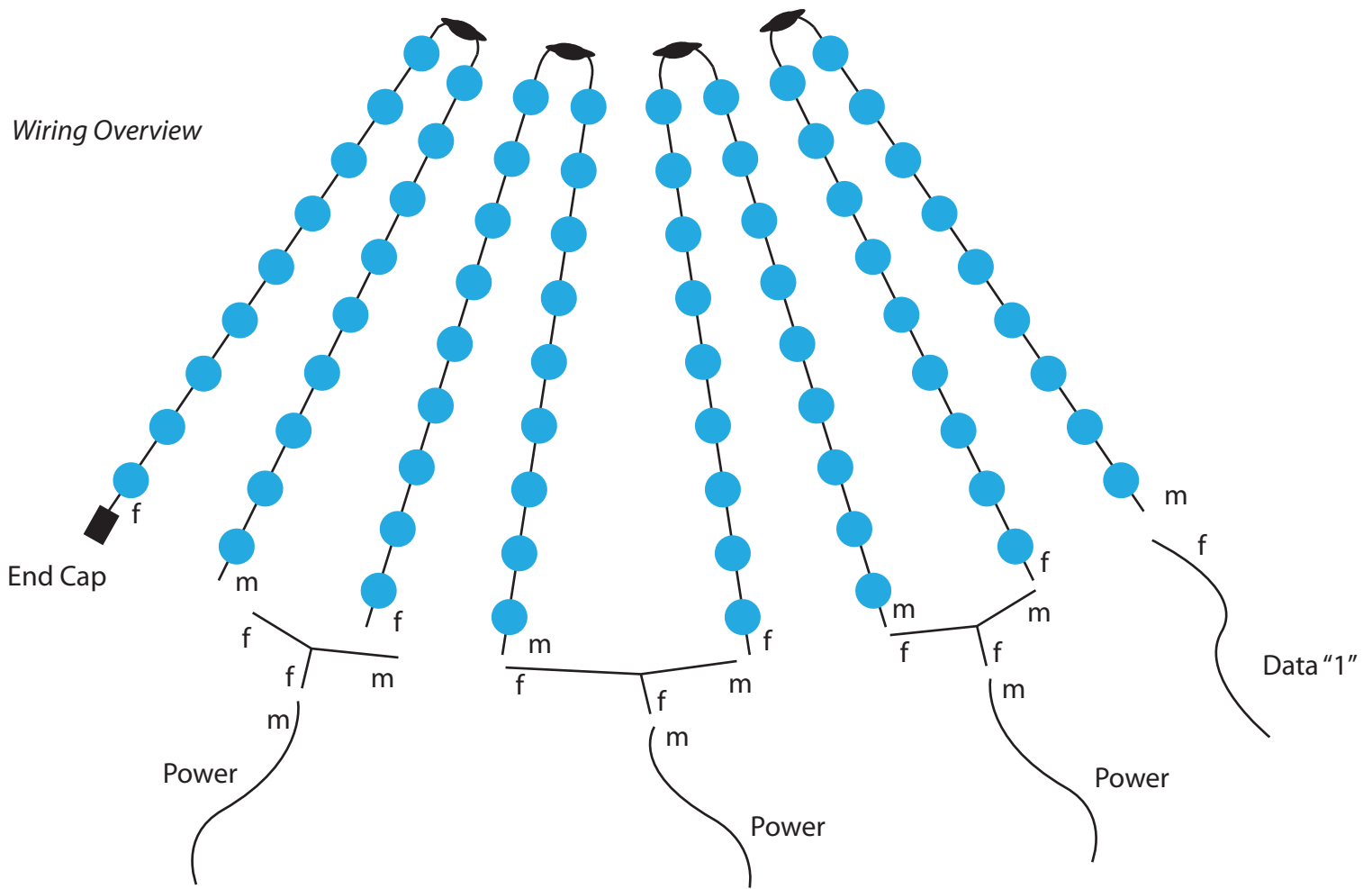


The eighth string will get an end cap on the female end.





Wiring Overview



Do the other 3 sections the same way until you have finished all 32 strings and everything is connected.

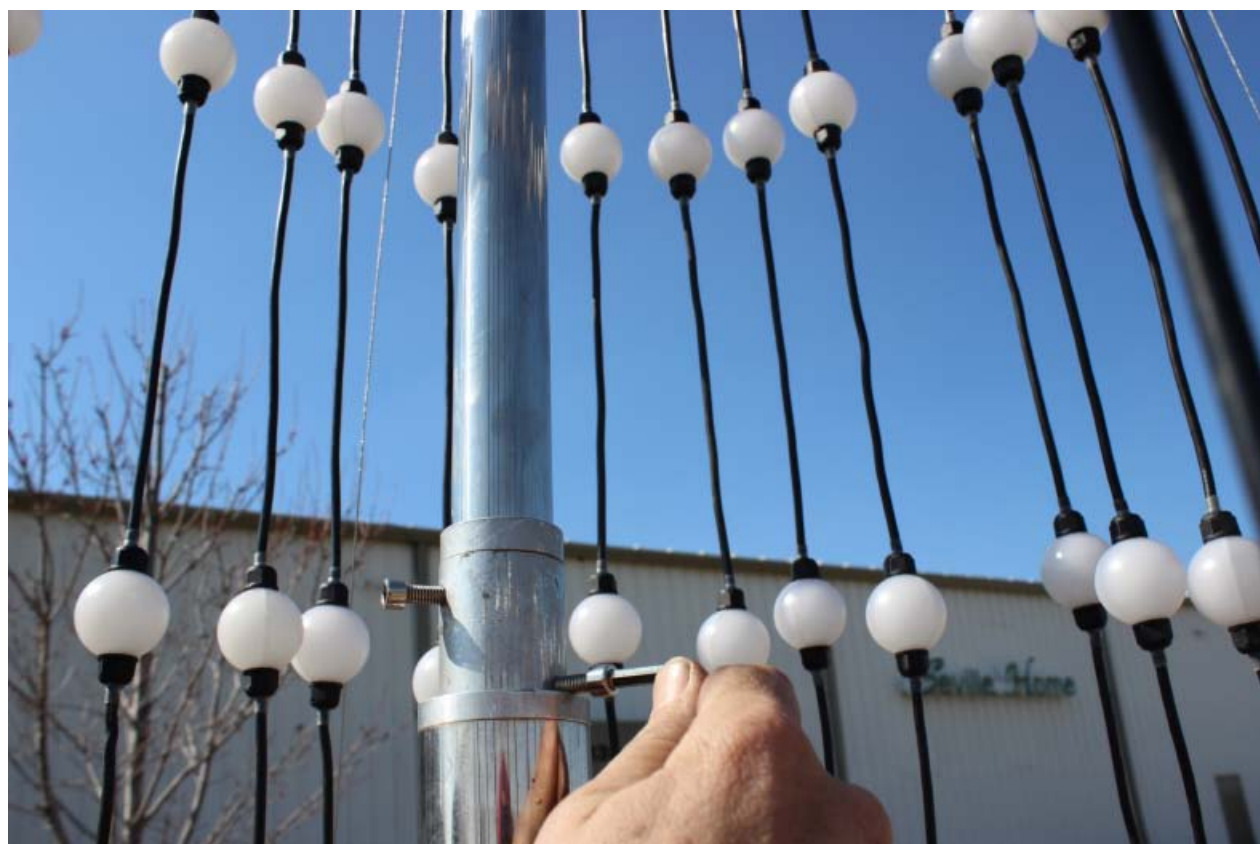




Attach the 4 safety cables.



Make sure that none of your strings are going to snag in the process, then extend the telescopic pole by loosening the Allen bolt on the upper most section and extending it until the line is exposed. (This step will require at least 2 people)





Once you see the line, tighten the top Allen bolt. Repeat this process until the telescopic pole is fully extended.



Tighten the 4 safety cables at the bottom ring so that the tree stands up perfectly straight.





Make sure that all the cables are secured to the bottom of the frame with cable ties.  
Connect the controller to the MBx32 and test your light show!!

