



Assembling The Quad

Assembling The Quad only takes a few minutes. You will need 4 finished Boards, plus 1 Quad Platform. When assembling The Quad for your tournament, save time and money by borrowing Boards from participating teams. If you have not built your Board(s), go to “Board Building 101” on the RCX, Robo Challenge Xtreme website. These instructions are for The Quad assembly only.

Tools:

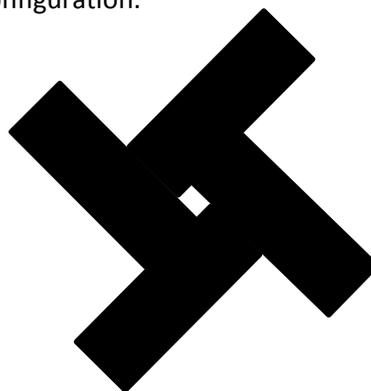
- 4 8-ft long tables
- Screw Driver or Drill
- Framing Level
- Wooden shims, or LEGO plates (to raise the Boards)
- Tape Measure

Materials Needed

Boards	4
Quad Platform	1
2-1/2 inch screws	1 lb.
Double sided Tape	Enough for 80 ft.

Step 1

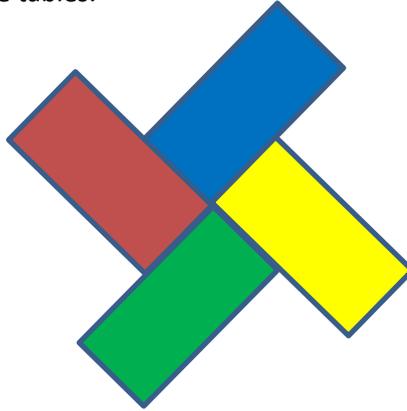
Place the 4 8-ft long tables in the “X” configuration.



The width of a table is narrower than the width of a Board, therefore you will have an open space in the middle. If you only have 6-ft long tables, adjust the tables so that the Boards are in the middle, additional support will be needed.

Step 2

Placing the Boards on top of the tables.



Notice, when the Boards are placed together, there is NO open space in the middle. All four corners of the Boards should touch in the "X" configuration.

Adjust the tables under the Boards at this time. Make sure each Board is centered on top of its table.

Step 3

Take a tape measure. From the point where all Boards meet, place a mark at 17 inches on the top of both walls from the middle meet point. Do this for all four Boards.

Step 4

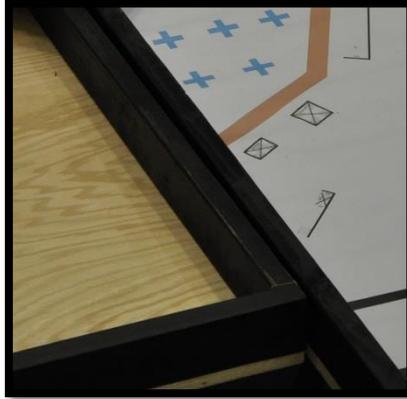
Place an Annual Challenge mat on each Board. Adjust the mat according to the specifications outlined in the General Rules or Annual Challenge Rules and Missions documents. Use double sided tape to prevent the mats from moving.

Step 5

Level the Boards. Using a framing level and the shims, adjust the height of the Boards placing shims between the Board and the table. Remember, LEGO plates work great as shims.

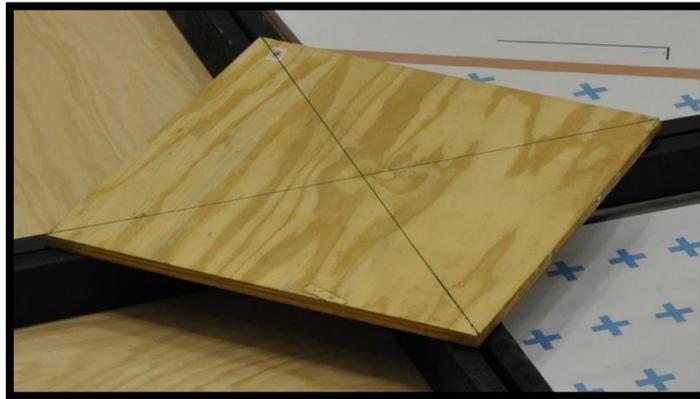
All 4 Boards should be level collectively, not separately. All walls should be level. When the Quad Platform is placed on top, the Quad Platform should be level as well.

Step 6



After the Boards are level, screw the Boards together using the 2-1/2 screws. Screw the side walls of the Boards together, two screws per Board should work. Notice the gap above between the Boards, try to eliminate the gap to the best of your abilities.

Step 7



Place the Quad Platform in the center of the 4 Boards. Align the platform to the marks from Step 3. The corner point of the platform should rest between the walls of the adjacent Boards on the 17 inch mark. Make sure all 4 corner points are resting between the Board walls on the mark. Screw the Quad Platform to the walls using the 2-1/2 screws.

***The Quad Platform should be painted black. It is not painted to better illustrate its placement.

Finished

You are now ready for the RCX, Robo Challenge Xtreme Competition



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Clarification

1. Step 7 above may not be a perfect fit due to the construction of the Boards or the size of the Quad Platform. Adjust the platform to the best of your ability to be fair and equal among all the Boards. Teams should program their robots to compensate for the variation in the front edge of the platform.
2. As outlined in the RCX Tournament Policy, make the Boards as equal and fair as possible. Notify Coaches at the Coaches Meeting of any variation their teams may need to make.
3. Remember, teams should compete on different Boards for each Match, therefore teams have the opportunity to perform differently depending on the Board the team is on. Again providing an equal and fair opportunity among the teams.