



Robot Game Table Building Instructions



ROBOT GAME OFFICIAL TABLE

For the best experience, set up your Challenge Set on an official robot game table. If one isn't available, you can build your own using the instructions below (basic tools and woodworking skills required). If building or borrowing a table isn't possible, a clean, smooth, and solid floor can be used as an alternative for practice.

The following section outlines all necessary specifications, dimensions, and materials to help you build a table that meets official standards.

SPECIFICATIONS

- Inside wall-to-wall dimensions must be:
 - **L** = 93±1/8" (2362±3mm)
 - **W** = 45±1/8" (1143±3mm)
 - All border walls on any table must have the same height and must fall within the range:
 - **H** = 2-1/2" (64mm) min to 4" (102mm) max
 - Border wall thickness must not exceed 2.0" (51mm).
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PARTS & MATERIALS

Part	Description	Dimensions	Paint	Quantity
A	Table Surface (A) – Sanded Plywood (or other smooth board)	96" (2438mm) x 48" (1219mm) x minimum: 3/8" (10mm)	Left/Right of Mat	1
B	Long Border Wall (B) – (Two-by-three)	(8' Two-by-three): 96" (2438mm) x 1.5" (38mm) x 2.5" (64mm)	Yes	2
C	Short Border Wall (C) – (Two-by-three)	45" (1143mm) x 1.5" (38mm) x 2.5" (64mm) (Both can be made with 1 additional 8' two-by-three cut to size):	Yes	2

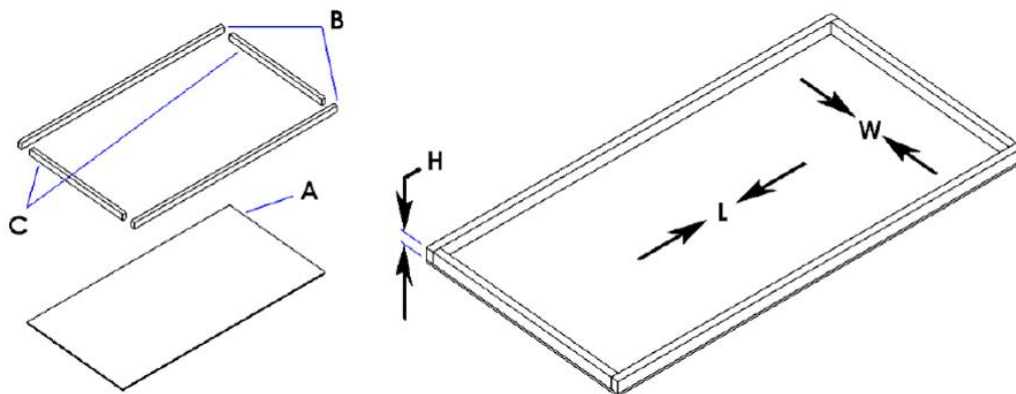
PARTS & MATERIALS (CONTINUED)

-	Wood Screws	2.5" (64mm)	---	1/4 lb. (1/4 kg)
-	Matte Black Paint	---	---	1 qt (1 L)
-	Challenge Set (LEGO® mission models, mat, 3M Dual Lock Recloseable Fastner™)	---	---	1
-	(Optional) Black Tape (Gaffers)	---	---	1 Roll

Notice: As *FIRST* LEGO League continues to grow globally, we recognize that material dimensions vary across regions. Teams should be prepared to play on tables with border wall heights ranging within the standard height “H” (listed above) and wall thicknesses up to 2.0 inches (51 mm).

ASSEMBLY

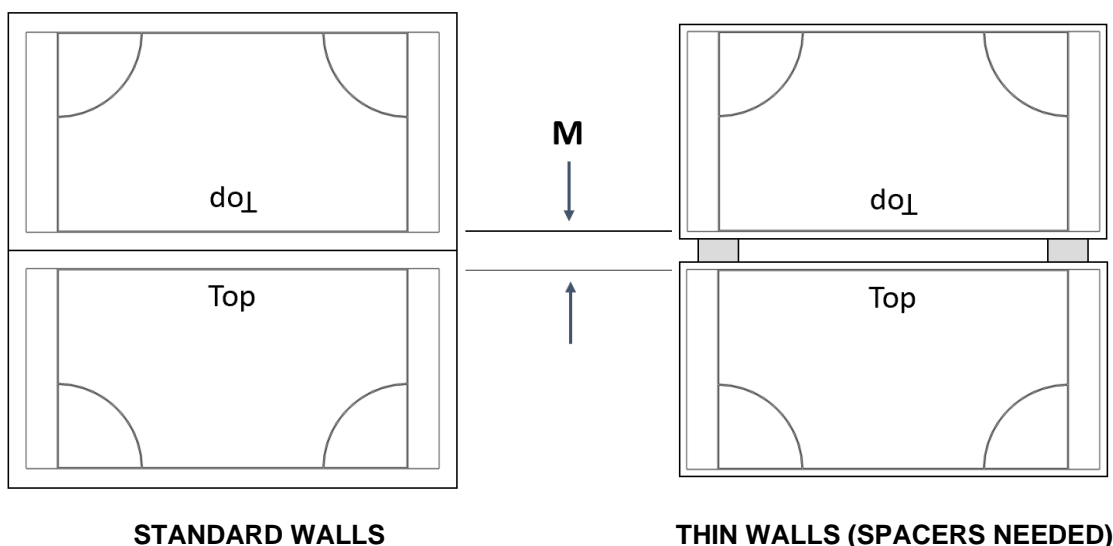
- Set the border walls (**B** and **C**) on the perimeter of the smoothest face of the plywood (**A**) and use wood screws to secure in place, ensuring the wall-to-wall dimensions **W** and **L** are accurate
- Place the assembled tabletop, border walls up, on a short, level, and solid surface (Recommended height range: 24" (710mm) - 36" (910 mm))



TOURNAMENT SETUP:

At a tournament, two official tables are set against each other as shown in the diagram below.

- The full/total span “**M**” across the border walls must measure between 3.0” (76mm) and 4.0” (102mm). Use spacers between the tables to stay within this range as needed.
- All border walls on all tables at a tournament must have the same height **H** as each other.
- All pairs of tables at a tournament must have the same span **M** as each other.
- Do not attach things to the tops of border walls unless all teams coming to the event have been notified.
- For accessibility, support the tabletop at a height between 24” (710mm) - 36” (910 mm). This helps participants to see and reach the field more comfortably. Consider using adjustable table legs, sawhorses, banquet tables, or similar solutions that can be set within this range.

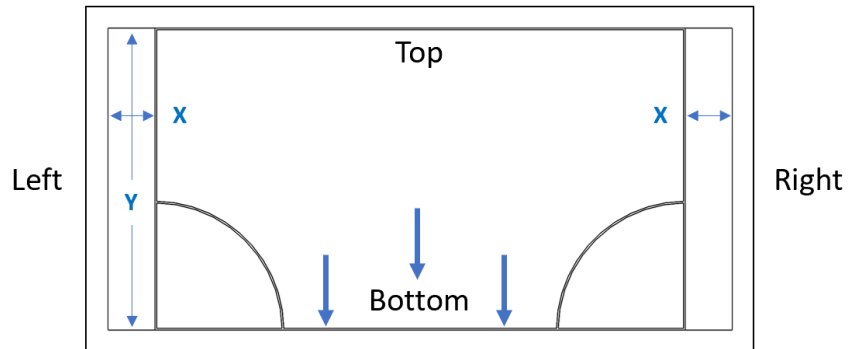


Notice: In competitions, volunteers work hard to get the fields just right, but you should expect and design for rare imperfections such as bumps under the mat, minor gaps, or changes in light.

MAT SETUP INSTRUCTIONS:

1. Check the table for any bumps or uneven areas. Sand or file them down, then vacuum thoroughly to remove all debris.
2. On the clean tabletop surface, unroll and place the mat as shown below. (**Notice:** Do not fold or bend the mat, as this may cause permanent damage to the mat surface. When storing, roll the mat instead.)

3. Slide the mat against the bottom border wall and align it centrally. There should be no gaps except for one at the top wall of about 0.35 in. (9 mm). When table size and mat placement are correct, the areas to the left and right of the match each measure about $X = 7.15$ in. by $Y = 45$ in. (181 mm by 1,143 mm).



4. **Optional:** To hold the mat in place, you can use thin strips of black tape along its edges, ensuring that the color border of the mat is at least partly visible (Recommended: matte black gaffers tape).