

Sizing Box Build Instructions

Hardware inspectors use an 18" square sizing box to easily determine that a robot does not exceed the maximum starting size. Sizing boxes may be constructed out of wood or clear polycarbonate, if it is available.

Materials

- 2 sheets of hardboard: 1/8" x 24" x 48"
- 5.5' x ³/₄" wood for rails (*cut to the dimensions given below*)
- 1 ¼" flat head wood screws
- Wood glue and 1" brads (wood nails)
- 18" calibration square

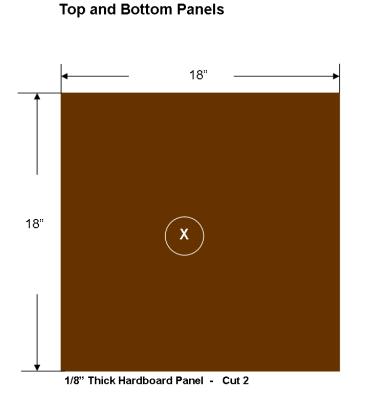
Instructions

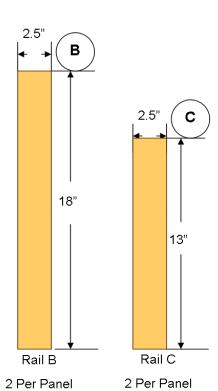
1. Cut pieces for top and bottom (X), sides (Y) and back panel (Z) from the two hardboard pieces, as shown.





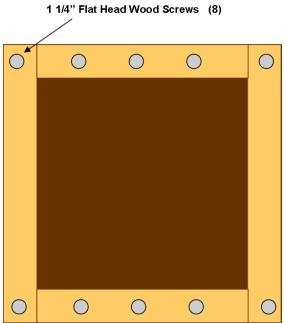
- 2. Cut rails for the top and bottom panels to the dimensions indicated in the drawing.
- 3. Attach rails to the hardboard using wood glue and wire brads.





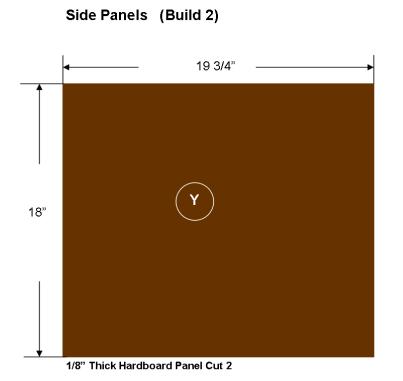
3/4" Thick Wood

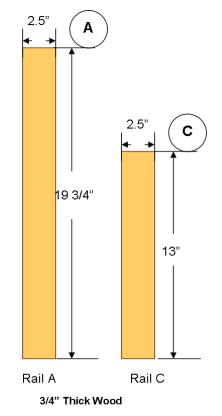
B X B

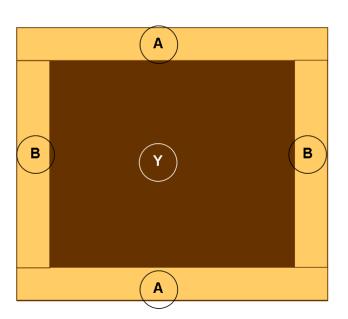


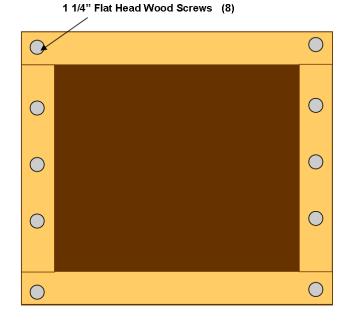


- 4. Cut rails for the side panels to the dimensions indicated in the drawing.
- 5. Attach rails to the hardboard using wood glue and wire brads.



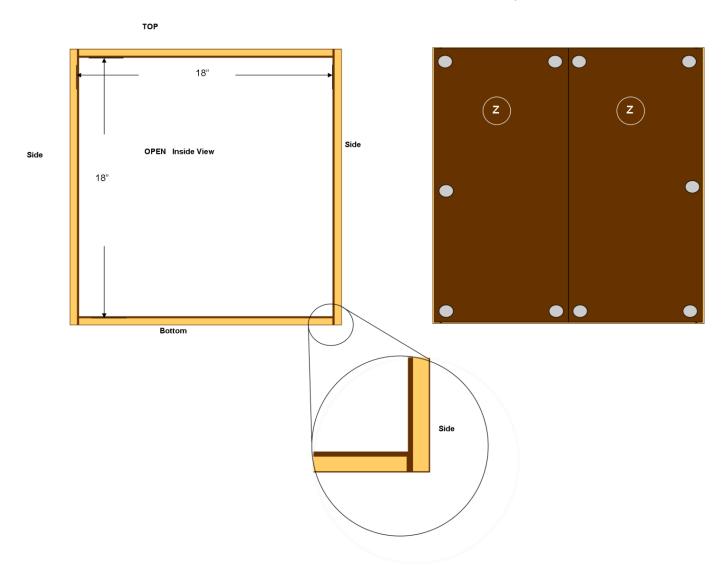








- 6. Using the calibration square and 1¹/₄" flat head screws, attach the side panels to the top and bottom panels with the sides overlapping the top and bottom, as shown in the drawing.
- 7. Affix the back panels (Z) to the back of the box using $1\frac{1}{4}$ " flat head screws. Front of the box will remain open. Use the square to ensure the inside dimension of the box is exactly 18 x 18 x 18 inches.



Note: A single clear panel may be used instead of hardboard for the back panel.