CYCLONE CUSTOM

Toy Box Build Plan

Pocket-hole construction · 1/2 in plywood panels · 36 in wide × 16 in deep × 19 1/4 in tall



The finished box, built by Gary.

www.cyclonecustom.com

Scan the code to watch me build this and get further insight on it.

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Material List

- 1 - 4x4 foot sheet of 1/2 in thick hardwood plywood
- 1 - 3/4 in thick project panel 36 in x 16 in
- 2 - 1x3 @ 8 feet long
- 1 - 1x2 @ 8 feet long (need 1 more for optional top)
- 1 - 2x2 @ 8 feet long
- 1 in and 1 1/4 in pocket hole screws
- Hinges - QCAA Heavy Duty 3-Fold Retro Chest Hinge, 3 in, matte black, 2-pack (link.amazon/B066jp3Ua)

- Lid support - Alise Folding Lid Lift Up Stay Support with Soft Close, 4-pack (link.amazon/B07JDutgW) - keeps the lid from slamming shut or falling backwards

- Felt pads
- Felt (YTFRL underfelt carpet, 18 in x 36 in) - 1 piece, cut to fit inside the box (link.amazon/B05LaFbXq)

Tools List

- Measuring Tape
- Pencil
- Safety Glasses
- Speed Square
- Drill
- Circular Saw
- Jig Saw
- Pocket Hole Jig
- Sander

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Cut List

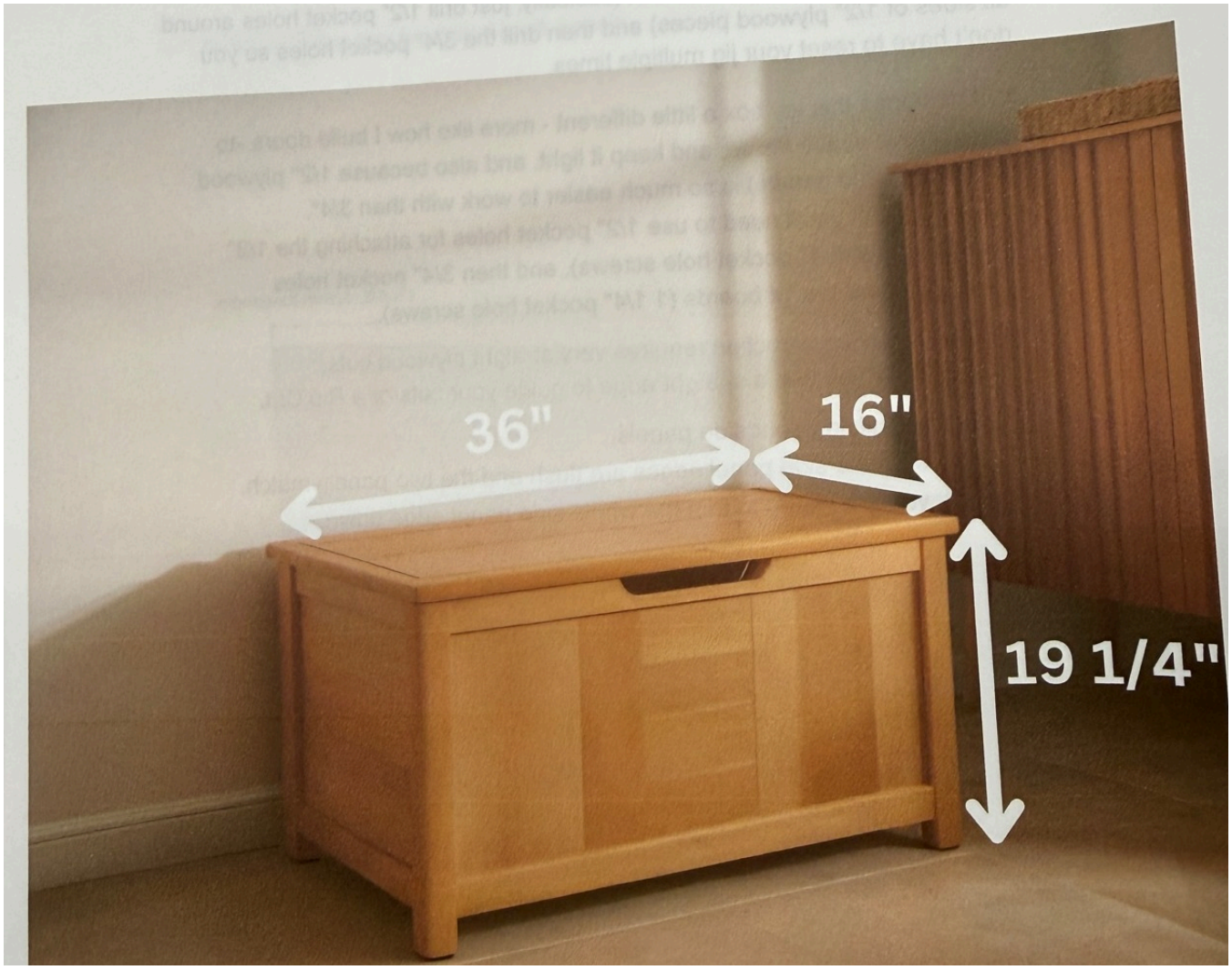
Qty	Piece	Size
2	1/2 in plywood	12 in x 12 in
2	1x3	12 in
2	1x2	12 in
2	1/2 in plywood	12 in x 32 in
2	1x3	32 in
2	1x2	32 in
4	2x2	18 1/2 in
3	1x3	13 in
1	1/2 in plywood	33 in x 13 in
1	3/4 in project panel	36 in x 16 in

Optional top

Qty	Piece	Size
1	1x2	33 1/2 in
2	1x2	14 in

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Dimensions



Finished toy box, 36 in wide, 16 in deep, 19 1/4 in tall.

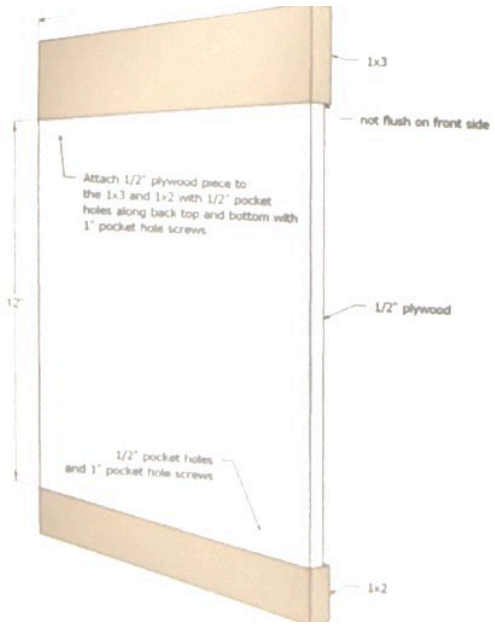
36 in	16 in	19 1/4 in
wide	deep	tall

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Step 1 - Build the side panels

> **TIP:** Drill all 1/2 in pocket holes first (basically, just drill 1/2 in pocket holes around all sides of 1/2 in plywood pieces) and then drill the 3/4 in pocket holes so you don't have to reset your jig multiple times.

- I designed this toy box a little different - more like how I build doors - to conserve space inside, and keep it light, and also because 1/2 in plywood (used for the panels) is so much easier to work with than 3/4 in.
- This means you'll need to use 1/2 in pocket holes for attaching the 1/2 in plywood (with 1 in pocket hole screws), and then 3/4 in pocket holes for attaching the 1x boards (1 1/4 in pocket hole screws).
- This type of construction requires very straight plywood cuts.
- Make sure you use a straight edge to guide your cuts or a Rip Cut.
- Start by building your side panels.
- Make sure the side panel edges are flush and the two panels match.
- If not, you may need to trim the whole side panel edge down.

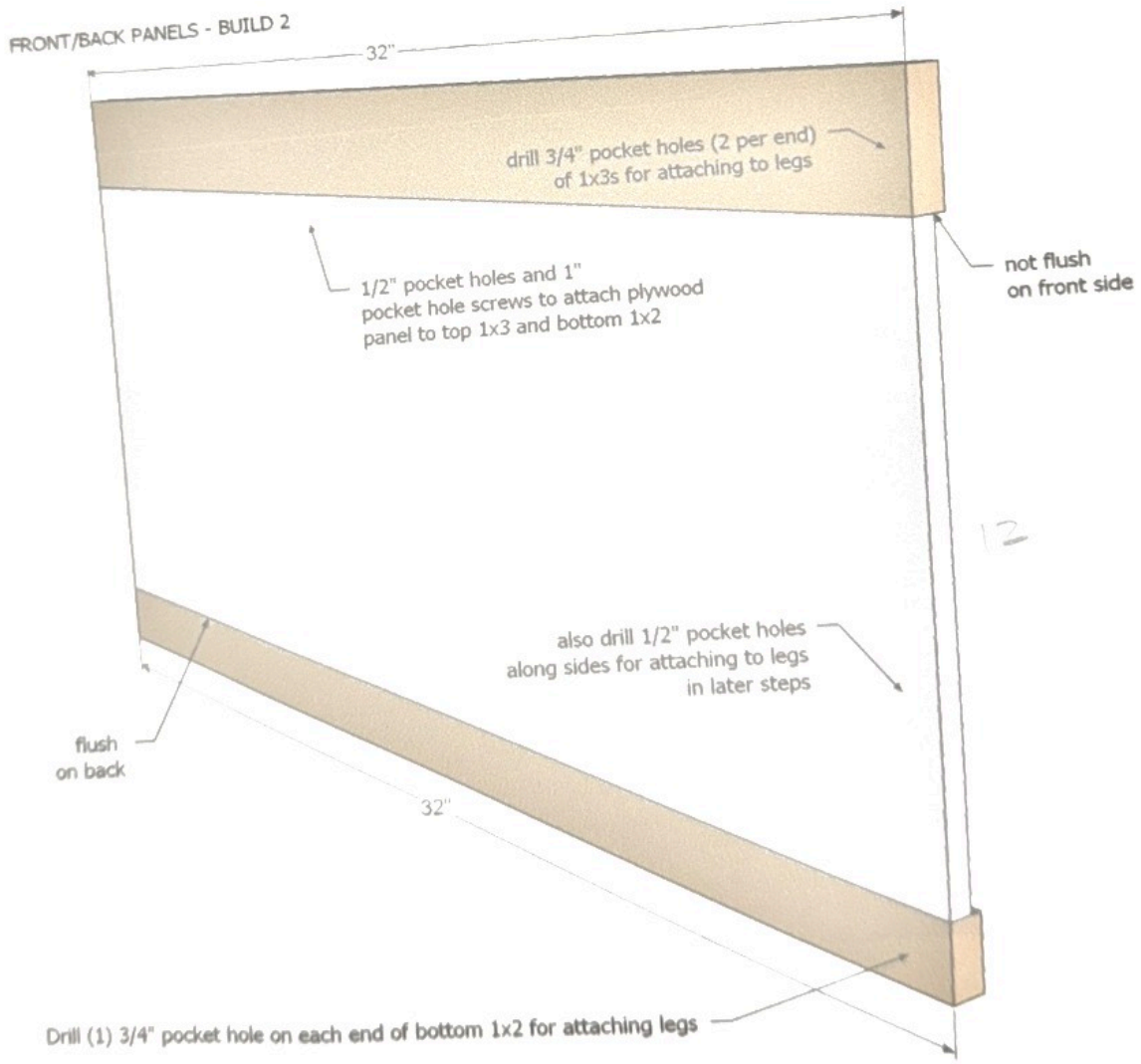


Side panels - build 2 (12 in x 12 in)

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Step 2 - Build the front and back panels

- Then build the two front and back panels.



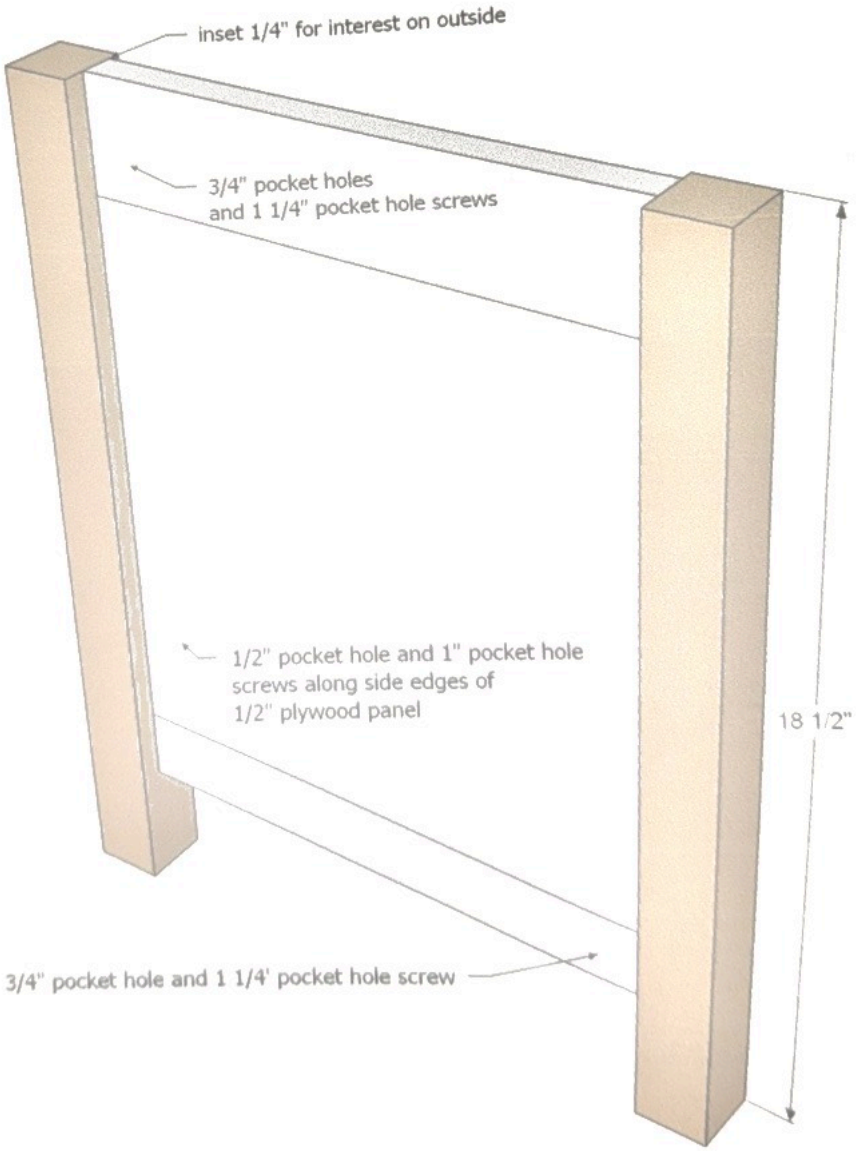
Front/back panels - build 2 (32 in x 12 in)

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Step 3 - Attach side panels to legs

- Attach side panels to legs.

> **TIP:** Fill any pocket holes that you can now instead of later when it's tough to reach inside.

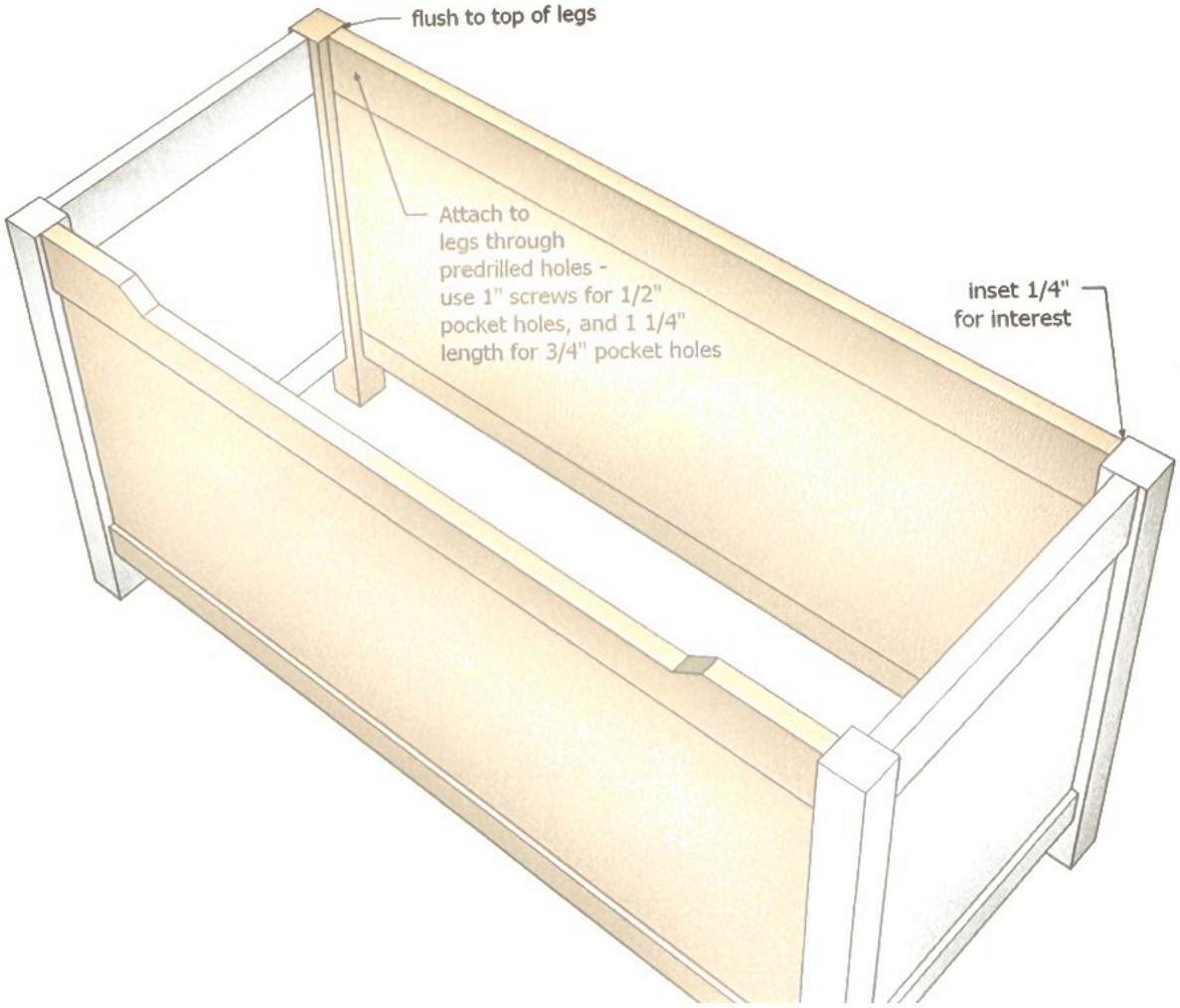


Side panel on legs - legs 18 1/2 in

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Step 4 - Attach front and back panels

- And then the front and back panels to the side panels.

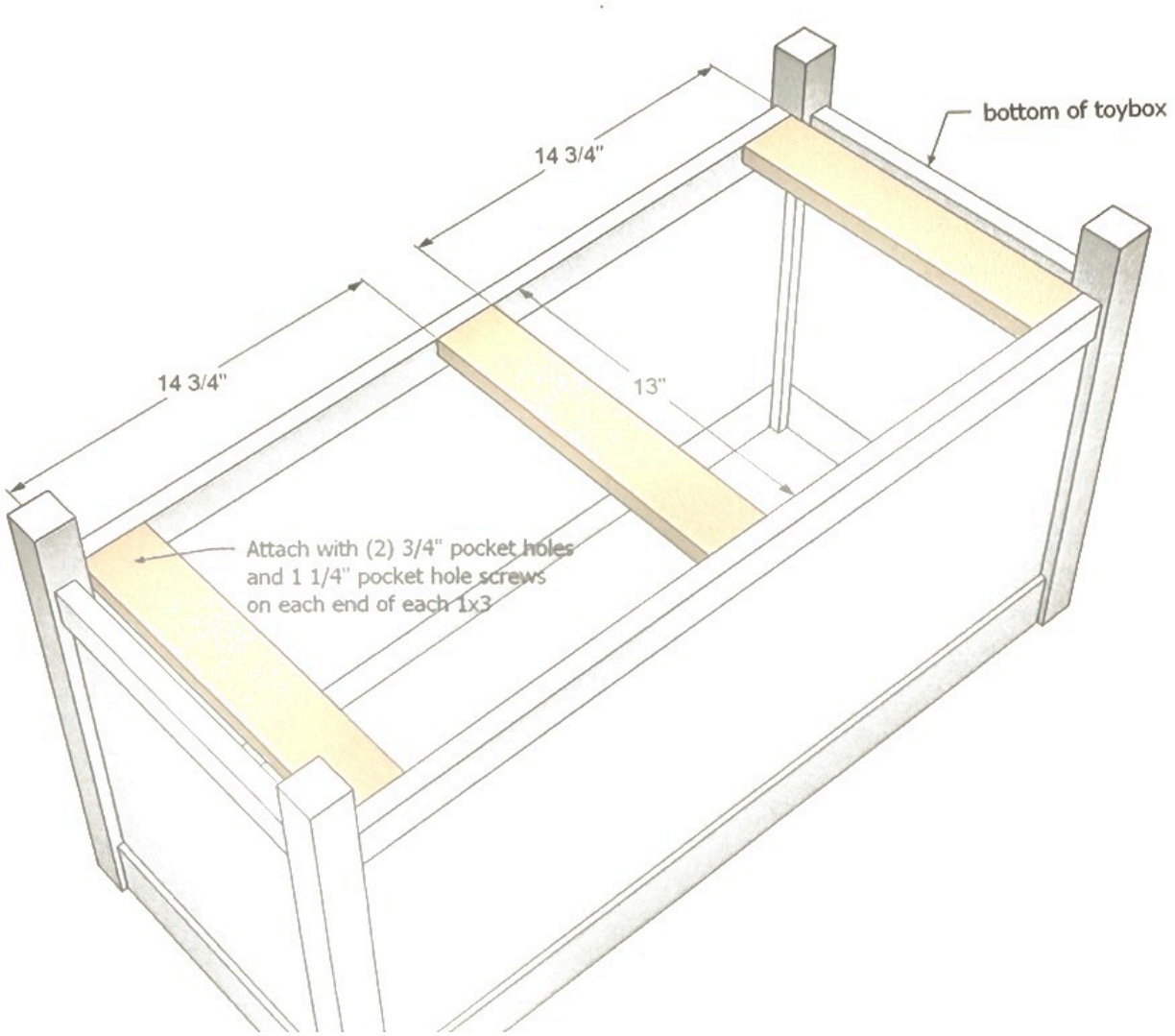


Box frame - panels flush to top of legs

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Step 5 - Bottom of toy box

- Bottom of Toy Box. Attach with (2) 3/4 in pocket holes and 1 1/4 in pocket hole screws on each end of each 1x3.



Bottom supports - 14 3/4 in, 13 in

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Step 6 - Set in the bottom

- Then the bottom can rest inside.
- For even more support and to help square things up, I recommend attaching the plywood to the sides with 1/2 in pocket holes and 1 in pocket hole screws.

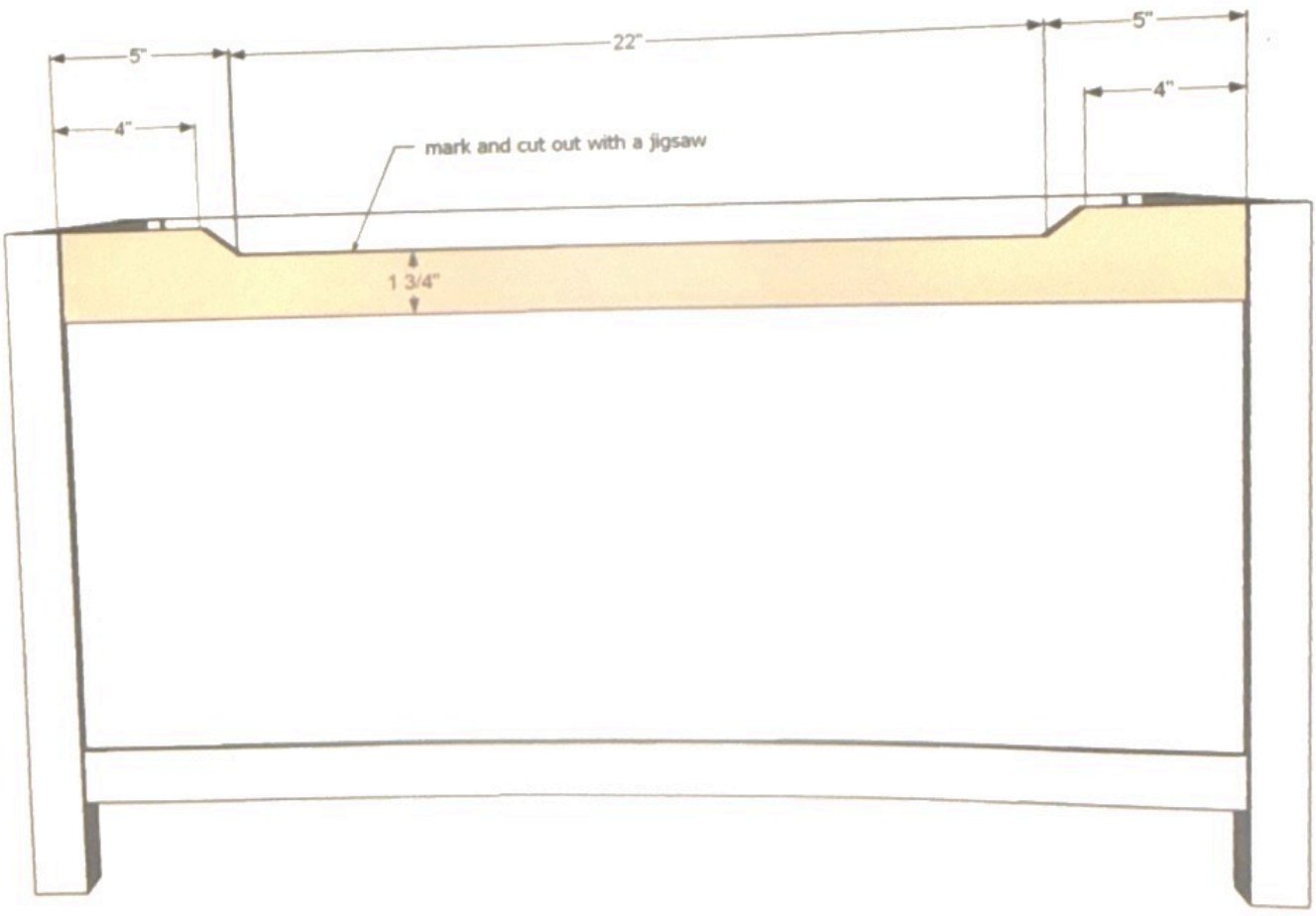


Bottom panel 33 in x 13 in - notch 1/2 in x 1/2 in out of each corner with a jigsaw

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Step 7 - Cut the front edge

- Now cut the front edge out with a jigsaw.
- Sand the cut edge until smooth.

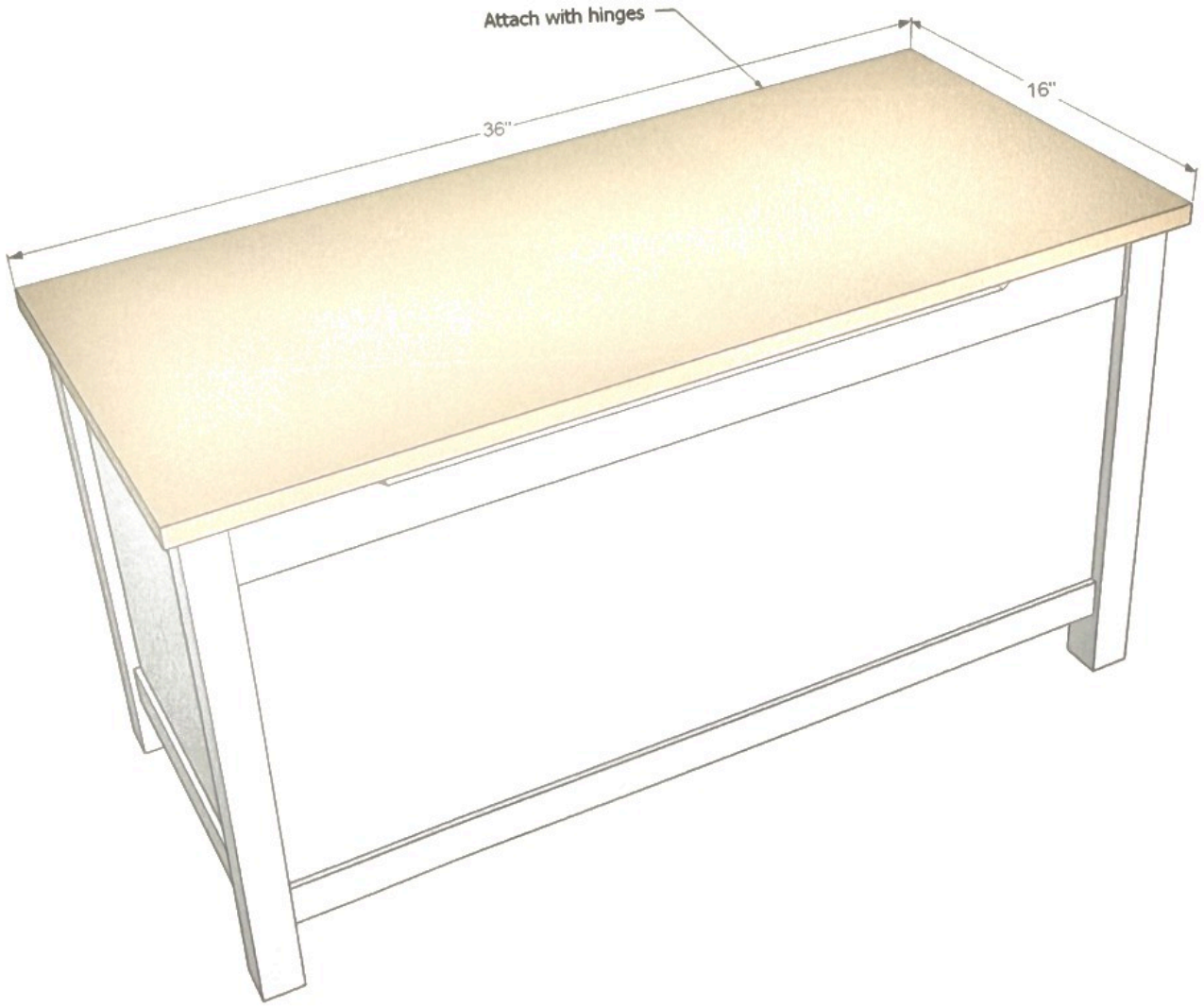


Front edge cutout - 22 in wide, 1 3/4 in deep, mark and cut out with a jigsaw

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Step 8 - Attach the top

- Attach top with hinges.



Lid attached with hinges - 36 in x 16 in

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Step 9 - Optional top lip

- If you want to add a top lip, you can do that too - for example, to place a top cushion on.
- Here's what I recommend but this is optional of course.



Optional top lip - 33 1/2 in x 14 in

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The finished top

Gary's finished top. The optional oak lip outlines the edge of the 36 in x 16 in lid, forming a tray edge ready for a cushion.



Top view - the oak lip outlines the edge of the top panel.



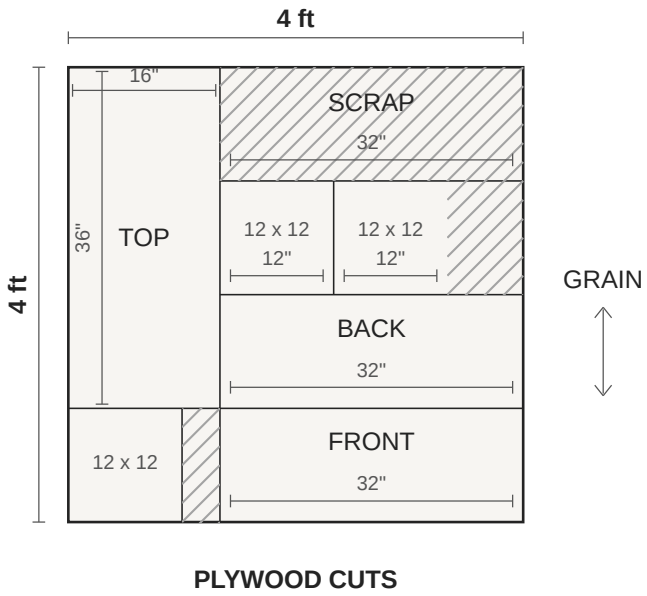
The finished top on the box - the lip stands proud around the edge.

Building the top: cut the top plywood down to allow for a 1 in oak border glued on around the edge.

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Step 10 - Finish

- Fill all holes with wood filler and let dry.
- Apply additional coats of wood filler as needed.
- When wood filler is completely dry, sand the project in the direction of the wood grain with 120 grit sandpaper.
- Vacuum sanded project to remove sanding residue.
- Remove all sanding residue on work surfaces as well.
- Wipe project clean with damp cloth.
- It is always recommended to apply a test coat on a hidden area or scrap piece to ensure color evenness and adhesion.
- Finish with Rubio Monocoat Oil Plus 2C with hardener - Pure, 130 ml kit (link.amazon/A0f6teK3t).



Plywood cuts - Gary's layout on a 4 ft x 4 ft sheet (drawn to scale)