



Tool Caddy

Part name	#pieces	T	W	L	Material
sides	2	1/2"	3	15 3/4"	poplar
ends	2	1/2"	3	10"	poplar
Handle divider	1	1/2"	5 7/8"	15 1/4"	poplar
Middle divider	1	1/2"	2 3/4"	10"	poplar
bottom	1	1/4"	10"	15 1/4"	Birch plywood

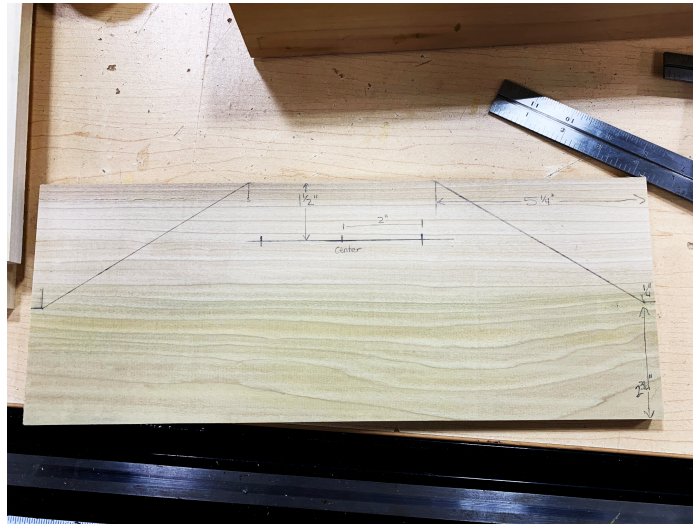
1. Start by rough-to-ready your sides, ends, middle divider and divider handle. Take your time to get your pieces to exact dimensions.
2. Using the dado blade on the table saw, set your blade height to 1/4". Mark 1/4" rabbet from the edge in on the end of your side and end pieces. Make sure your stock stays tight to the fence when cutting your rabbets. You are welcome to use the feather board to help you keep your stock tight to the fence when cutting. Use a paddle for this cut as well to maintain a downward pressure on the table.
This can also be accomplished on the router table with a 1/4" straight router bit.



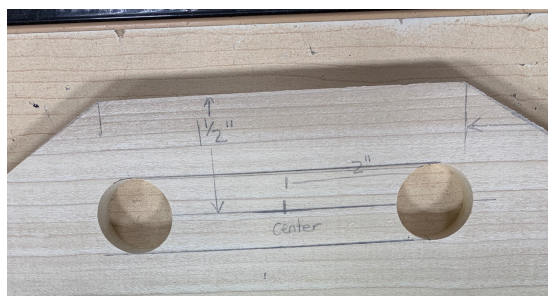
3. Mark out your half lap joint on your middle divider and your handle divider. Find the bottom center of your piece. From the center, mark $\frac{1}{4}$ " over from each side. Take those marks and mark a straight line up $1\frac{3}{8}$ " up from the edge. This should be done on both your middle divider and handle divider.



4. On your handle divider mark out your handle. Find the center on the top half of your piece. From the center, mark a line 2" over on either side. Then mark $1\frac{1}{2}$ " down from the top edge intersecting both previous lines. These will be your center marks to drill out with a 1" forstner bit.



5. On the same handle divider, mark out your profile as shown in the picture above.
6. After drilling out your holes for your handle on the drill press with a 1" forstner bit, draw a straight line connecting the top of each hole and bottom as shown in the picture below.



7. Using a jigsaw, cut on the waste side of your line and cut your handle out. Make sure your material is clamped to the table and you are clear from cutting into the table.



8. Make sure to sand your handle to your lines eliminating any hills or valleys on the handle.
9. With a $\frac{1}{4}$ " round over bit on the router table, round over the inside of your handle.
10. Using the bandsaw, cut your handle divider profile out on the waste side of your line. You will then sand to your line.
11. You should return to the router table after sanding your profile of your divider handle and round over the edge shy of $\frac{1}{4}$ " from each end as this is part of your joint.
12. On the bandsaw, cut your half lap out on both your middle divider and handle divider. Use a chisel to cut the end of the half lap as shown in the picture below.



13. To cut your rabbets on either end of your side pieces, mark a $\frac{1}{2}$ " in from the end of your piece on your edge. Set up your dado blade to $\frac{1}{2}$ " wide and your sled on the table saw. Set your blade height to $\frac{1}{4}$ ". Use a stop block when setting up your first cut to ensure your next three cuts are identical.



14. Mark out your dado on your end pieces. Start by finding the center of your end, then mark $\frac{1}{4}$ " of the center on either side. This should be marked on the edge to easily line it up with your $\frac{1}{2}$ " dado blade. The dado will only be $\frac{1}{4}$ " deep.
15. Assemble your side and end pieces and measure the opening between your rabbets to find the exact width and length of your bottom panel. This may differ from the plans based on how you've made your previous cuts. Once you have your measurements, cut out your bottom panel with $\frac{1}{4}$ " plywood.
16. From the outside in, mark the center of the bottom that connects to your middle divider with a straight line. Then drill a $\frac{7}{64}$ " pilot hole 5" in from either end. Use a countersink bit on each hole for the head of the screw to sit flush.
17. Before assembly, sand all your pieces making sure to avoid any joinery. Make sure to break all your sharp edges with your sandpaper.
18. Take the time to dry fit your pieces before gluing up your caddy. If anything is not fitting properly, fix it now. Once all is fitting properly, glue your project together and pin nail ($1\frac{1}{4}$ ") your joints together as you assemble. Screw your bottom into the middle divider with #8- $\frac{3}{4}$ " screws. Clamps are not needed for gluing this assembly. Let the glue dry for 24 hours before moving on.
19. Fill any pin nail holes with wood filler. Do a final sand to eliminate any glue marks, pencil marks and wood filler.

20. Apply your finish evenly over your caddy. We will discuss how to do this properly in class.