
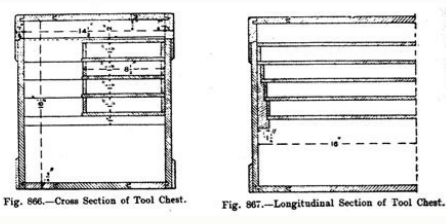
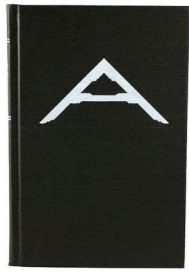


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Anarchist's tool chest plans.

And you are much less likely to damage your tails when driving them into the pins. I cut a small bead on the top edge of each to protect the corner from damage and to spruce up the interior a bit. The 5/16"-wide spacer acts as a shelf when installing the runner above it. I begin mitering at one front corner of the chest. The bottom and top skirts on this chest are mitered and nailed to the carcass. Almost all traditional tool chests were painted. Read about how the lid was built here. The bottoms and the runners they slide on are made from oak to resist wear. Attach the bottom boards to the carcass with 6d headed nails - I used cut clouts. Miterers all around. The bottom boards are, however, nailed onto the carcass so they are easily replaced if they rot. You only have to get the bottoms to slide smoothly on the runners. Rasp the bone. On the floor of the chest are two small saw tills - one for backsaws and the other for two panel saws. This detail makes the trays easy to fit. Build the Trays Rack at the back. The glue will have more strength this way. Rabbed dovetails. The Lid Rabbet the seal. The Right Chest Size The gang's all here. Then shape the ends of the lifts. This simple rack can hold a variety of tools. I use water-resistant white oak and attach it to the bottom with waterproof glue and brass screws. The backsaw till offers more protection than the panel-saw till because backsaws are more fragile. Racks & Tills Turn the bone. At this point I would typically work on the lid and its dust seal. It's an ideal size for someone who works alone, has to move the chest on occasion and doesn't require a full set of moulding planes. That's not because I'm awesome; it's because a miter box allows you to put a sawtooth right on a knife line. Chest Lifts Screwed either way. The lowest runners are installed 5 1/4" from the floor of the chest - that gives your bench planes the headroom they need. In other words, the bottoms are 1/16" proud on either end of the assembled trays. After building about 20 of these chests, I have found a better way to make the dust seal fit. The lid is a thick panel that is surrounded by a dust seal on three sides; the seal pieces are dovetailed at the corners because this area of a tool chest takes heaps of abuse. Here you can see how the bottom protrudes from the end of the tray, making the tray a cinch to fit. Before cutting the miters, however, cut any moulding or bevels. I used a simple ogee curve. While you should carry your chest by holding its bottom (or put it on a cart), the lifts help you get the chest into position or to balance your load. Begin by cutting a tail on the seal, then show it to its mate. Blog: Read about a commercial crab lock. The rack on the back wall is made from scrap bits of oak that I glued together, then screwed onto the back wall with No. 8 x 1 1/4" screws. I used the tongue-and-groove joint. After finishing, I oil and wax these rot strips to make them repel water. Flush Trim Bit Brad Point Bits Forstner Bits I typically dovetail the skirts at the corners, but a well-made miter can survive just fine. I attach the seal using a combination of glue and nails. Smooth-sliding bottom. These are not just decorative - a 90° corner is fragile and will quickly splinter off in the shop. How it's Built Long sleeves. The parts that will see heavy wear are oak. Smooth the inside faces of the boards and assemble the carcass. This till is at the back of the chest. The center section of the dog bone is turned down to 1" diameter. I use a tongue-and-groove plane to cut the joints on the long edges of the bottom boards. On the back wall of the chest is a simple rack for holding chisels and other small or handled tools - dividers, combination squares and screwdrivers. I install these lower runners by first making a spacer board from some scrap that is 5 1/4" wide (see photo at left). Trim the bottom boards flush with the carcass. I can adjust this fit in tiny increments with a shoulder plane. When cutting through-dovetails, I gang-cut the tail boards to save time and effort. Then screw it to the side of the carcass and to a bottom board. You turn down the center to make a handle. After exploring each of these methods, I kept coming back to a traditional tool chest because I have not found a better way to protect and organize my tools. Install the Runners The sliding trays run on oak runners that are affixed to the inside of the carcass. Then clamp the corners while the glue dries. If your carcass isn't square, clamp across the long diagonal to pull it square while you nail on the bottom boards. The top tray is for all the small tools you use every day - layout tools, a block plane, a mallet, hammer and wax, for example. After cutting the panel to size - it's a bit larger than the rim of the carcass - attach it to the carcass with hinges. Medium-size chests are just big enough to hold panel saws and smaller metal jointer planes - about 18" x 18" x 30" - and can be picked up by one person. I like simple racks and tills for my chests because that leaves more room to arrange the tools. We may receive a commission from sales referred by our links; however, we have carefully selected these products for their usefulness and quality. Many chests like this begin their lives intending to hold tools but somehow end up at the foot of the bed stuffed with blankets and doilies. The bottom boards are the only part that touches the runners. We'll discuss the interior fittings after we get the carcass complete. Each lift is made from a single piece of oak that looks like a dog's bone when you begin. You can use any paint you like - milk paint, oil paint or latex. The 5 1/4" height is critical for holding standard bench planes below the bottom tray. But because Jameel Abraham was working on the lid panel, I fitted out the interior with trays, saw tills and a rack. This shape leaves plenty of meat for the screws to bite into. Traveling Tool Chest Cut List No.ItemDimensions (inches)Material t w l 2 Front/back 3/4 x 14 7/8 x 28 Pine 2 Ends 3/4 x 14 7/8 x 18 Pine 1 Bottom\* 5/8 x 28 x 18 Pine 2 Rot strips 3/4 x 1 3/8 x 17 1/2 Oak 2 Bottom skirt, front/back 1/2 x 3 1/4 x 29 Pine 2 Top skirt, ends 1/2 x 3 1/4 x 19 Pine 2 Top skirt, front/back 1/2 x 1 5/8 x 29 Pine 2 Chest lifts 1 1/4 x 1 3/4 x 12 Oak 1 Lid panel 7/8 x 18 1/16 x 28 3/8 Pine\*\* 1 Dust seal, front 1/2 x 1 1/2 x 29 Pine 2 Dust seal, ends 1/2 x 1 1/2 x 19 Pine interior fittings 2 Bottom runners 7/8 x 7/8 x 16 1/2 Oak 2 Middle runners 1/2 x 5 1/2 x 16 1/2 Oak 2 Top runners 1/4 x 5 3/4 x 16 1/2 Oak Bottom Tray 2 Front/back 1/2 x 5 1/8 x 25 3/8 Pine 2 Ends 1/2 x 5 1/8 x 8 Pine 1 Bottom 1/4 x 8 x 25 1/2 Oak Top Tray 2 Front/back 1/2 x 2 1/2 x 25 7/8 Pine 2 Ends 1/2 x 2 1/2 x 8 Pine 1 Bottom 1/4 x 8 x 26Oak Tool holders 1 Panel-saw till 7/8 x 2 5/8 x 5 3/4 Oak 2 Backsaw tills 7/8 x 4 x 5 3/4 Oak 1 Rack, front piece 1/4 x 3/4 x 25 1/2 Oak 4 Rack spacers 5/8 x 3/4 x 1 Oak \*Made from multiple boards. \*\*Plywood if making a marquetry lid Profile Interior Fitting Elevation Trays Mitered Skirting Completely stuck. Loading up. Resist rot. This till holds the saws at their tips. When I build tool chests for customers, this is far and away the most requested size. Please avoid oils - they will stink forever. However, this does not impact our recommendations. Then use nails alone for the rest. The carcass is dovetailed together - the strongest joint available. With the lid in its final position, you then can build the dust seal around it to create a perfect fit. Be sure to leave some room between the boards for expansion and contraction. Glue the short grain of each miter and clamp it at the corners. The Best Finish Keyhole. The weight of the handle and the teeth at the heel of the saw prevents the tools from whipping around in the chest. It is the most durable and easy-to-renew finish. They are easy to install because they are surface-mounted to the inside of the chest. If you are skipping the marquetry panel, make the lid from a softwood that doesn't move much, such as one of the white pines. The only difference is that there are two blocks of wood and three kerfs in each for the dovetail, carcass and tenon saw. The bottom skirt protects the carcass from kicks and bumps. Tool chests are built in a number of fairly standard sizes that are based on the sizes of typical tools and the limits of our bodies. The till for the backsaws is made and attached in the same manner. Historic proportions and details are still the best. Then I cut a 3/16" bead on the tongue boards as decoration. Large floor chests are usually about 24" x 24" x 40" and are designed to hold full-size saws and large jointer planes, which can be longer than 30". These chests also hold a full set of moulding planes, bench planes and all the small tools needed to make any piece of furniture. My other favorite form of rack is a board that is poked with 1/2"-diameter holes on 1 1/8" centers. The grain should run from front to back in the chest (for strength), and the long edges of the boards should have some sort of joint to accommodate wood movement. I also appreciate the finite capacity of a tool chest - it forces me to think hard before buying an additional tool. I bore the hole for the round part of the key. This fastening method allows the top to move. After the lower runners are installed, remove the spacer and install the runners above, also with nails and glue. Tweaked. The saw till for the panel saws is simply one piece of oak with two kerfs cut into it. There are three layers of runners for the two trays, all of different thicknesses and widths so that the trays can be pulled up and out of the carcass. These chests are difficult to move alone, which is a disadvantage if you are by yourself, but is an advantage if someone is trying to steal your chest (the thief needs an accomplice). I rabbet each piece until that piece fits perfectly flush with the top skirt and the top edge of the lid. A sad situation, indeed. Video: Take a short video tour of the chest Blog: Read more about "dog bone" chest lifts. Now dovetail and assemble the trays. Then nail or screw the bottoms on. Affix the lifts with stout #8 screws from both the inside and outside of the carcass. Sleeve the assembled carcass over your benchtop to make it easy to level the front and back of the chest. Once your chest is complete, my final caution is to avoid bringing it into your house. I like these tills because they take up little space. This medium-size chest can hold a remarkable amount of tools - two panel saws, three backsaws, the three standard bench planes, a rabbit plane, plow and router plane all fit on its floor. Glue and nail the skirting to the carcass - don't forget to apply glue to the miters themselves. To attach the "returns" along the ends of the chest, use glue and nails along the front 4" of the lid. Floating above the floor are two sliding trays - one deep and one shallow. The skirting is 1/2"-thick stuff that wraps around the entire carcass and is mitered at the corners. Glue and nail the front edge of the dust seal to the lid. The deep tray is for bulky tools such as the brace and bit, plus anything in a tool roll. The trays never touch the runners or interfere with the sliding action. Paint the outside of the chest, but leave the inside of the chest bare - or use a coat of wax alone if you like. Beveling the interior corners of the tail boards makes assembly easier. The trays are dovetailed at the corners and each has a thin oak bottom that is nailed on. The screws from the inside are driven into the thick part near the handle. Since I started woodworking in about 1993, I've stored my tools in almost every way imaginable - from plastic buckets to wall cabinets, racks and a variety of tool chests. During most visits to the tool store I conclude: If it doesn't fit in the chest, I probably don't need it. Proud bottom. Kerf the block of wood for the saws, then shape the block so it looks nice. The medium-size chest in this article is ideal for someone getting started in woodworking with a small shop and a budding kit of tools. The top skirt helps seal the interior from dust and protects the lid's dust seal. Plan: Download a free SketchUp model of the traveling tool chest. And glue it up from several pieces of quartersawn or rift-sawn stock to further reduce seasonal movement. Then I cut the remainder with a chisel. The walls of the trays are made from pine. We may receive a commission when you use our affiliate links. I used a 3/8" square ovolo on the bottom skirt. Once the glue is dry, level the joints and remove the tool marks from the case's exterior. Make the Shell Groove your bottom, then tongue it. Now fetch the pine bottom boards. The last bit on the shell is to attach the rot strips to the underside of the bottom boards. Either way works. One kerf is for the crosscut saw and the second for the rip saw. The top skirt has a 1/8" bead on its top edge and a 30° bevel on the bottom edge. If you need to use multiple boards for the bottoms, shiplap the joints at their mating edges. The only tough part about installing a crab lock is cutting a well-placed and crisp keyhole. Most of the carcass is made from a lightweight and inexpensive wood such as pine. I miter moulding with a miter box, which I find more accurate than power equipment. Then shape the ends of the "bone" to make them look nice. And they are gorgeous. The screws from the outside pass through the narrow ends of the lifts. Then, once all three pieces of the dust seal fit perfectly, I dovetail them together at the corners. Ease the entry. You'll then know what to do. The interesting detail here is that the finished trays are 1/8" smaller than the bottoms are long. Quick saw till. So fit the bottom boards so they are a close but smooth fit on the runners. The Interior This high. I use that as a temporary shelf to hold the lower runners in position while I glue and nail them. To keep the chest secure, I installed a traditional crab lock - a blacksmith-made lock built for chests that allows for some wood movement. The proper way to attach the lifts is to screw them in place from both the outside and the inside of the chest. All the miters here were assembled right from the saw. I get that joint perfect, then I make my way around the carcass. This ensures the moulding will match at the corners. Yes, clamp. It's easy to build, fairly tough and can easily be transported to schools. Now attach the skirting to the carcass. If you insist on a film finish for the inside, use shellac. Join the corners of the carcass with through-dovetails - six dovetails at each corner are suitable for a chest this size. The two sliding trays and rack hold everything else you (should) need. Speaking of rot, the entire chest sits on two oak "rot strips" screwed to the bottom boards, keeping the chest off a wet floor. This joinery looks a little involved, but it's actually simple. Product RecommendationsHere are some supplies and tools we find essential in our everyday work around the shop. This plane cuts both the male and female bits. Mould the entire stick of wood before cutting it apart for mitering. So shoot them to perfect length until you get the sliding action you want with zero racking. Smaller chests - the third size - were usually used for site work or by "gentlemen" woodworkers who had a small kit of tools. Then remove the piece from the lathe. The arrangement shown in this chest is typical and works well. Either make your rot strips impervious to water (plastic would work, too), or make them so they will rot off immediately by using pine and iron nails. The rabbit on this piece of the dust seal allows you to sneak up on the perfect fit all around.

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