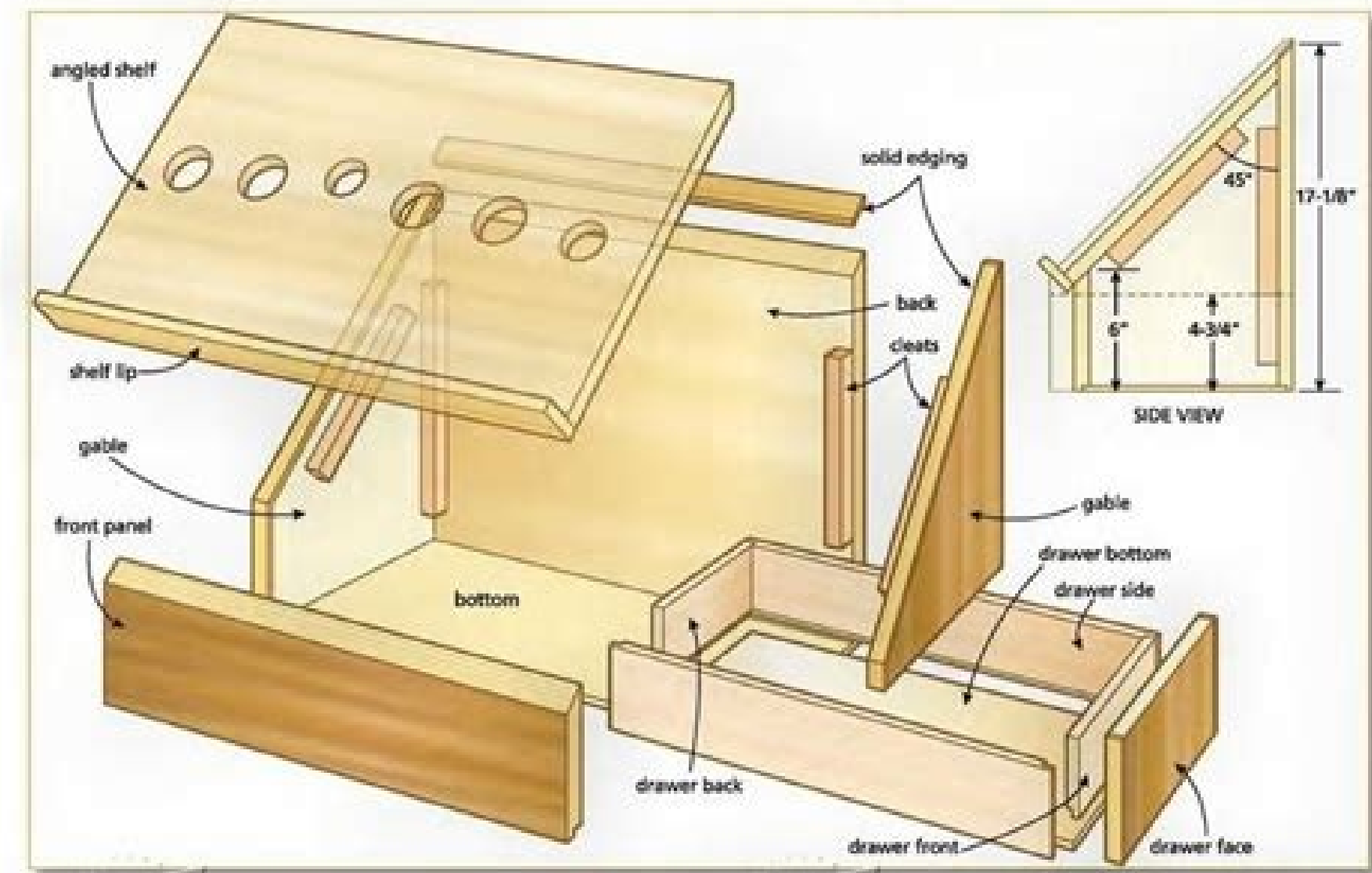


I'm not robot!



stop blocks for this, but a bandsaw or jigsaw would work if you didn't mind a more rustic look.

Drill the chuck holes

To figure out exactly where to drill the holes to accept each drill's chucks I made a simple model shelf, and screwed a solid wood cleat to its edge. Though it didn't fit any of my drills perfectly, I could easily see how far off the hole was for each drill, then figure out where the chuck hole for each drill should be located on the real angled shelf.

Next I needed to space the holes out sideways, so there was enough space between each drill to be easily grasped. I spaced



Angled Cuts – Brown uses his cross-cut sled and some hold-down clamps to secure the gables while cutting their tops on an angle. Though this step isn't necessary, it may give you slightly better access to your drills.

my drills with at least 1" between each unit then marked the center point of each drill. The intersection of this line, with the height info I obtained from my model shelf, gave me the chuck-hole locations.

In order to help hold each drill as securely as possible I was careful to bore a hole customized to each drill. The hole should be just large enough to let the drill seat fully into it, but not large enough to be sloppy. The holes I drilled were between 1-3/4" and 2-1/8" in diameter. Using scrap to test which holes work best for which drill goes a long way to a great finished rack.

to an interior size to design for of 3 1/4" high by 5 1/4" wide. The overall height consists of the 3 1/4" card space, a 1/4" saw kerf, the two 1/4" grooves for the top and bottom and finally the two 1/4" sections that hold the top and bottom, for a total box height of 3 3/4". The saw kerf allowance is for separating the lid from the base after assembly.

The overall width consists of the 5 1/4" card space, two 1/4" side thicknesses at the mitres and two 1/4" thick end inserts for a total box width of 6 1/4".

The interior depth is somewhat arbitrary, depending upon how many cards you might want to fit in the box. There is one problem that needs to be avoided. As long as the height of the card is significantly greater than the depth of the box base, even a single card will sit easily in the box. If the depth of the box is deeper than the cards are high, the cards will fall over flat when there are only a few in the box. This is not the end of the world; the depth dimensions to avoid are the ones in between. It is at these depths that a card can fall over and get jammed between the front and back of the box. By making the sides 3 1/4" to match the final height, the box will hold a good number of cards and when only a small number of cards are contained, they can fall over flat and not get jammed.

The key locations are somewhat flexible. For this design, I started out by choosing to go with the top and bottom keys both being 1/4" in from the top and bottom. Assuming the lid key is in the middle of the lid, this gives a lid thickness of 1 1/4". This also provides us with the location of the eventual saw cut to separate the lid from the base. Finally, the middle key was positioned 1/2" below what will become the top edge of the box base, once the lid has been cut away.

I chose to make the recipe box out of cherry, with holly and ebony keys. Feel free to use whatever wood suits your fancy.

Basic Preparation

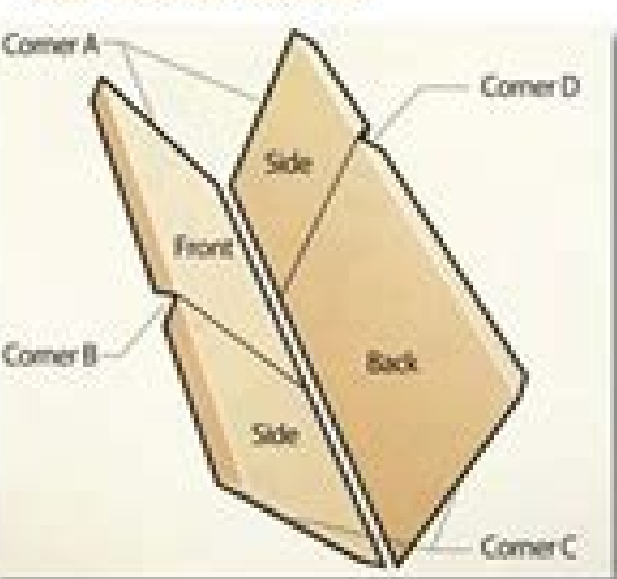
Mark all the blanks that you are going to re-saw into thinner stock with distinct triangle patterns on one long edge so that you can easily put the pieces back



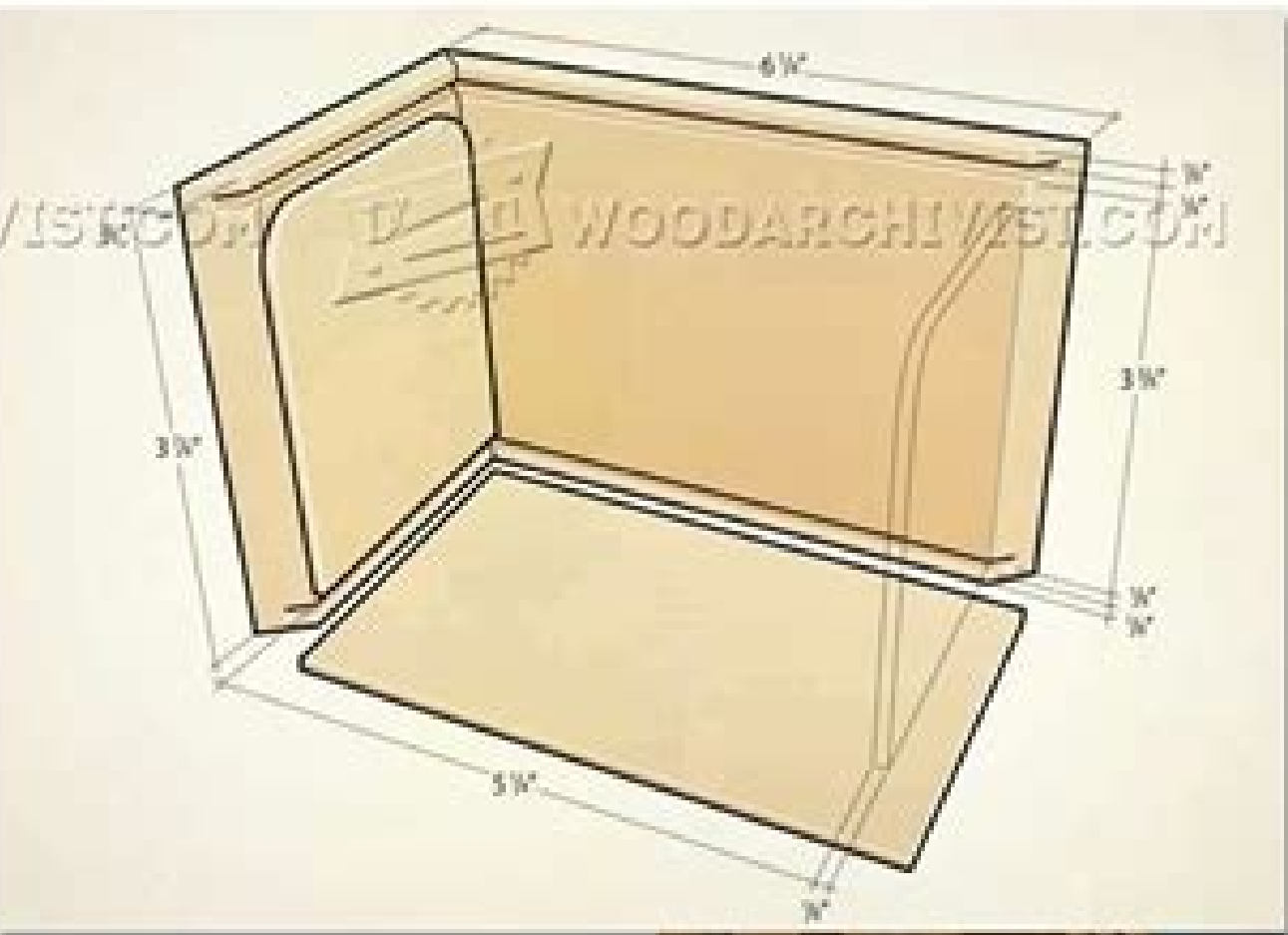
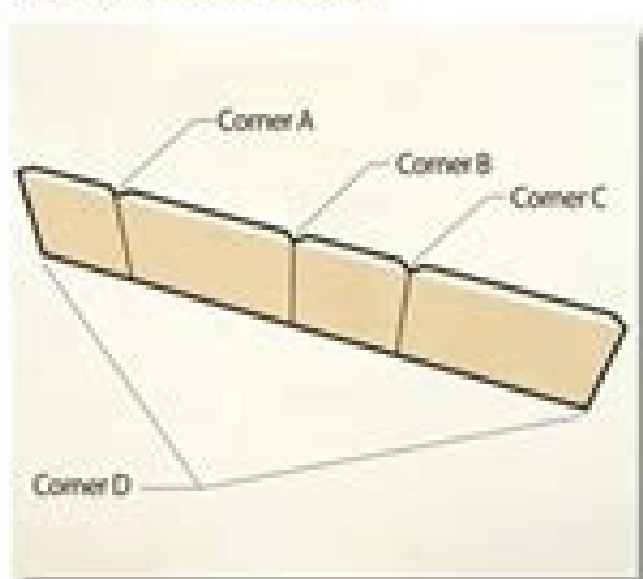
Materials List

Part	Qty	T	W	L
Front / back	2	3/4"	3 3/4"	6 1/4"
Side	2	3/4"	3 3/4"	3 1/4"
Bottom panel	1	3/4"	3 3/4"	5 1/4"
Top panel	1	3/4"	3 3/4"	5 1/4"
End inserts	2	3/4"	3 3/4"	3"

Four corner match



Three corner match



together in the correct order after they have been re-sawn apart.

When re-sawing, place a jointed edge down against the bandsaw table surface and a jointed face against the bandsaw fence. After each thin panel is removed, lightly joint the re-sawn face on the remaining board before re-sawing off another panel. When all the thin panels are removed, surface plane the re-sawn faces to get the panels to their 1/4" final thickness.



The Triangle Trick – Mark stock so the grain of the panels will match after re-sawing.



6
Flip the taped assembly over; then apply glue to the mitered edges, insert the bottom into its dado, and fold the box around the bottom.



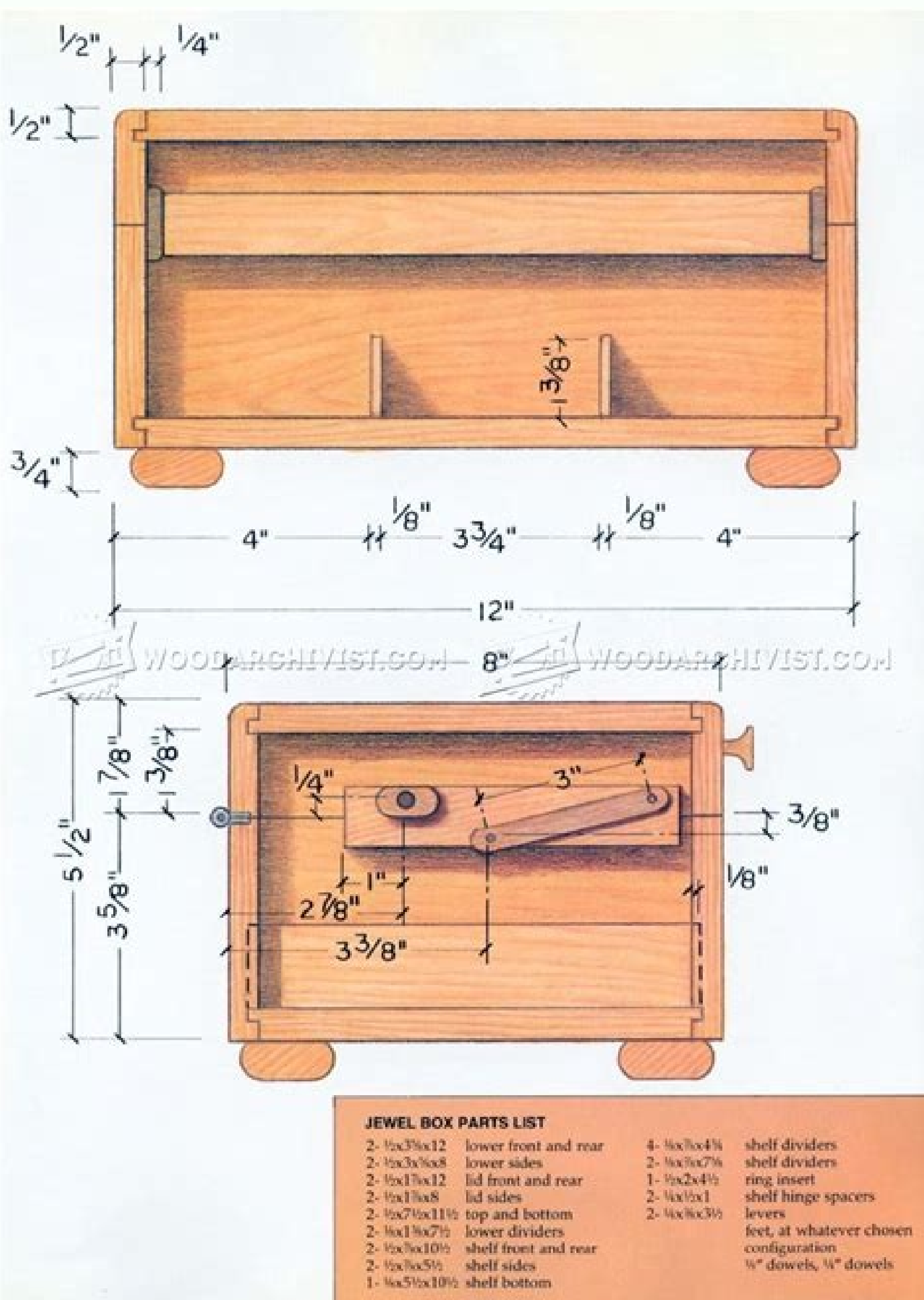
7
Use band clamps to draw the joints tightly together. Be sure that the assembled box is square and that it sits flat on the bench top and doesn't rock.



8
To cut the spline kerfs, slide the jig against the table saw fence. Adjust the blade elevation gradually to achieve the right depth of cut.



9
Glue the splines into the kerfs. The grain should run the length of the splines, and they should fit snugly but easily into the kerfs.



Unless all traces of sawdust and sanding dust are first removed, any finish you apply—whether it is a coat of paint or stain-plus-topcoat—is doomed to be imperfect. Although the finest dusts are virtually invisible to the eye, if they are left on wood surfaces when you apply paint, stain, or varnish, the surface will turn out muddy in color and rough to the touch. Even the most careful, precise work when building a fine woodworking project or laying a fine hardwood floor can be spoiled by a finished surface that is flawed simply because you rushed the process during the finishing stage. For best results, follow this four-step process. Although the process may seem excessive, following each step will reward you with a beautiful, smooth wood finish, whether you are painting the wood, applying an oil finish, or staining and finishing with topcoat varnish. Air compressor or shop vacuumClean clothsTack clothDenatured alcohol Start by blowing off the bulk of the sawdust and sanding residue t using an air compressor fitted with a blower nozzle. Even better is vacuuming every surface and crevice of your project with a shop vacuum fitted with a good quality filter designed to trap the microscopic dust. While any vacuuming is better than none, a standard filter can cause the vacuum cleaner to exhaust dust right back into the room, where it can resettle on the wood surfaces. Next, wipe down the wood surfaces with a dry, clean cloth. A white cloth will allow you to see how much dust you are collecting as you wipe down your woodworking surface. A tack cloth is really just a piece of loosely woven cheesecloth impregnated with beeswax. When lightly wiped over wood surfaces, it miraculously picks up dust that vacuuming and dry cloths cannot remove. Cut your tack cloth into small squares, and lightly wipe over all the wood surfaces. Inspect the tack cloth periodically to see how much dust you are collecting, and change the tack cloth whenever it gets dirty. Using a tack cloth can also confirm that your wood surfaces have been properly sanded. If you find that the fine threads of the cloth are snagging on rough surfaces, it is a sign that you may not have been complete enough with your sanding. If you seek a perfect finish, make sure the tack cloth glides smoothly over the wood as you wipe; if not, return to the sanding stage to get it right. Many woodworkers end the wood preparation step with the tack-cloth wipe-down, but for the very best results, conclude your preparation by wiping down the surfaces with a clean cloth moistened with denatured alcohol. The denatured alcohol will help pick up even the finest dust, and since it evaporates very quickly, it will not discolor the wood in any way. It is even safe to use on projects that will be used for food, such as a cutting board or a hardwood bread tray. Following this four-step process is the perfect preparation for painting, oiling, or staining your finest woodworking projects or hardwood flooring installation. After trying it once, it will become your standard procedure for all your woodworking projects. After this preparation procedure is complete, it is best to move on to the painting or finishing stage as soon as possible. Within a day or even a matter of hours, house dust can resettle on the wood and create problems for finishing. We proudly stand behind the quality of our products. If any Goldblatt hand tool fails to deliver professional results, you can return it for a full refund. No questions. No hassles. Just honest business. Learn more Alibaba.com BlogHow to souce products on Alibaba.com effectively?Check out top 10 proven tips from 30+ experienced buyersRaw Material Price Index for Tools & HardwareFollow price trends to understand market fluctuations Photo: hydetools.comThis post has been brought to you by Hyde Tools. Its facts and opinions are those of BobVila.com.If you've ever finished drywall, you know that the sanding process releases lots of dust. Only moments after starting, your entire work space fills with a cloud so thick that you can barely see the wall on the other side of the room. Sanding wood cabinets or furniture before applying a fresh coat of paint or varnish may not create the same visibility issues, but the mess is similar.Moreover, any of these surfaces can release particulates that would be harmful if ingested—respiratory irritants in drywall joint compound, toxic chemicals found in wood finishes, and even contaminants like sap, mold, and fungus spores, depending on the condition of the wood. (The things we endure for a professionally smooth finish!)Whether you're working on drywall or wood furniture, the good news is that with the following techniques and a secret weapon from Hyde Tools in your arsenal, you can reduce airborne sanding dust by up to 95 percent, making the job easier on you and your health.Tools & MaterialsSanding DrywallSTEP 1Although these next steps minimize dust while sanding, it's smart to employ commonsense safeguards against those dust particles that do escape. By taking some simple precautions—donning a dust mask and goggles, draping plastic sheeting in open doorways, and spreading a drop cloth over carpeted or hardwood floors—you can virtually eliminate any risk to yourself, the flooring, and any nearby items.Photo: hydetools.comSTEP 2For the best results, enlist the HYDE Dust-Free Sponge Sander. The \$15 hose attachment converts nearly any wet/dry vacuum into a sanding assistant that cleans as it goes. Use the tool's adapter to securely connect it to the wet/dry suction outlet. (The adapter works with vacuum hoses that have 1¼-inch, 1½-inch, or 2½-inch openings.) Once the tool is attached, press a standard 3' x 5' sanding sponge into the rectangular casing at the other end of the hose.Pro Tip: Most drywall sanding jobs can be successfully completed using medium- or fine-grit sanding sponges. Skip the large-grit sanding sponges, as they tend to leave grit streaks in the drywall compound.STEP 3Hold the yellow sanding end so that the sponge is flat against the wall, then turn on the wet/dry vacuum and begin working in a circular motion. As you sand, the vacuum sucks most of the dust into the tank through a narrow gap around the perimeter of the sanding sponge.For the smoothest—and cleanest—results, use very light pressure and work at a medium speed. As you approach the centers of seams and joints, lighten up even more so that you're using only enough pressure to remove ridges and bumps. If you find that dust is escaping around the edges of the sanding adapter, you're sanding too quickly. Take your time. You'll be glad you did!Continue to sand the entire area, using a stepladder to reach the highest corners. Even though you're entrusting your vacuum with the job of tidying up as you go, it's also important to clean your vacuum's filter frequently to prevent clogs caused by large amounts of drywall compound dust.STEP 4When you think you've finished, inspect your sanded surfaces. Since it's difficult to spot rough areas of compound with overhead lighting alone, shine a bright handheld light, such as a portable work light, parallel to the joints to check for any irregularities. You may find that some areas need more sanding, or you may need to fill in indentations with spot applications of drywall compound and then sand those areas again.Once you've determined that the surface is free of rough patches and gouges, you're ready to prime the walls and then cover them with either paint or wallpaper. (With most of the mess already in your wet/dry vacuum, cleanup will be so minimal you won't even consider it a step!)Sanding Wood and CabinetrySTEP 1Pull on a respirator mask and goggles to reduce the slight risk from any airborne wood dust that might escape the HYDE Dust-Free Sponge Sander. Your sanding experience should be virtually dust-free, but it's always better to err on the side of caution.STEP 2Fasten the dust-free sander to your wet/dry vacuum at its suction outlet, and insert a sanding sponge into the opposite end. The sandpaper grit you choose will be essential to the success of your sanding job. It's best to work in the following order:Large-grit sanding sponges smooth rough wood surfaces and remove surface coatings, such as old varnish.Medium-grit sanding sponges work well for smoothing stripped wood surfaces and unfinished wood cabinets and boards.Fine-grit sponges should be reserved for the final sanding step to achieve an extra-smooth surface.STEP 3Sand your wood surface in the same direction as the wood grain rather than against it, which can leave cross-sanding marks on the wood. As you work, the HYDE Dust-Free Sponge Sander directs the vast majority of wood dust around the edges of the sponge where your wet/dry vacuum can safely suck it away.STEP 4If the wood you're sanding involves contoured trim and corner creases, remove the sanding sponge from its casing and sand those areas with just the sponge. The HYDE Dust-Free Sponge Sander works best on flat expanses of wood, such as cabinet doors and bookcase sides and shelves.STEP 5Finally, wipe a tack cloth over the sanded wood. This pass serves two purposes: First, any catching or snagging will alert you to a rough area that you need to sand a bit more. Also, the tack cloth can remove traces of dust not visible to the naked eye that might mar a smooth paint finish. But these swipes with the tack cloth will be just about all the cleanup you'll need after your practically dust-free sanding job. Simple Solution: reduce airborne dust when sanding, tape a standard HVAC air filter to the intake side of a portable box fan. Turn the fan on and position it near where you're sanding with the filter facing the sander. The filter will trap much of the sanding dust, making clean up a breeze.TAGSDIYHome ImprovementlifehackSimple SolutionsToday's Homeowner

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