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Cut and table saw sleigh PartsCut fences and mountain RunnersMake Stop Block ChannelAttach fences for the SledAdjust fence for the dining saw BladeAdd Stop Block and SplinesMy old DIY desk saw the sleigh has served me well for years, but it's worn out now. So today I'm making a nicer version with a simple design. Be sure to get free plans so you can make your own table saw sled today!1. Cut Table Saw Sani Base and Fence PartsI grabbed a large chunk of 1/2 plywood and cut it to 36 inches wide and 24 inches deep for a table saw the sled base. It's a little more than my old one for a little more features. Half an inch of italics will keep the transverse sleigh weight down. But for fences I will use double stacks 3/4 spit. I had a five foot offcut about 9 wide that I ripped up two 3.5 lanes. Next I cut both stripes on 37, which is for the back fence. This left me with two lanes about 23 for the front fence. You can make the front fence full width, but it just adds extra weight. Gluing the plywood together makes a really sturdy fence, but you also want it as straight as possible. You can counteract any bow in the boards, flipping them together for glue up. I let the boards dry during the night, then took them out of the clamps the next day. After that I flattened one side of each fence on my joint and then cleaned the opposite face on the saw table. You can clean both faces on the table seen if you do not jointer.2. Cut the fences for size and mountain RunnersNext I cut one end of the long back fence area. Then tagged for another cut using a table saw the sled base. The length of the short fence doesn't matter, so I cut each end of the square. Then I put the round on all the open edges. To make runners I used a small piece of maple and some plywood offcuts. I used plywood for several test incisions and typed in size. Then I ran the maple board to the end to cut my runners wide. After that I adjusted the fence to 3/8, flipped the runners on the edge and ran them. I took the runners to the table saw the sled base and drilled three countersunk holes in each one. Next I used miter slots for position runners. I put stacks of two pucks along the slots. Then I fell into the runners to lift them over the surface of the table. I put the fence on 24. This will give me 2 feet to the right of the blade and 1 foot left for my transverse sleigh. Then I put a few swabs of super glue on the runners and put the base on top with some weight to have it installed. A couple of minutes later, I flipped the cross-section sled. Then provided the runners constantly with #6 5/8 screws. I cut the runners to the length of the base. Then I gave the table saw the sled test drive. It was a little sticky in the stains, so I tip from Wood Whisperer to fix this. I put pencil marks on the runners then ran it back and and and to see where he was rubbing. With a little resurfacing I got it to slide nicely. Add Integrated Table Saw Sled Stop BlockBefore mounting fences I would add a handrail at the end of the table saw the sledge. I used a 1-1/2 forner bit to set the ends of the side slot. My old DIY desk saw the sled bare bones and I'd just use a crowbar clamped to the fence for repeated cuts. The integrated stop block makes it a lot easier, so I'll put this Kreg Mini Track in the fence. And with some supplies from Woodcraft, I'll make my own stop block. I then took the fence to my router table and made signs where the track would stop on either side of the blade. I used the blue tape to help with the rupture. Instead of running the track all the way through the back, I'm going to leave 2 space where the blade will come over the fence. I noted the width of the cut then lined it up and made my first pass. When stop-stamps lined up with a router fence (which I'd set on the width of the router bit), then I knew to stop. To cut the back side I did a dip cut, went back to the line, then ploughed out the rest. After that I moved the router fence back to get my full groove width and repeated the process. It worked perfectly and the track fits right in. I finished it by squaring to the end of each slot with a chisel for a good clean look.4. Attach the fences to crosscut SledWhile I was at the router table I added 1/8 to 1/8 deepening at the bottom of the back of the fence. This will give the sawdust a place to go so it doesn't build between the blank and the fence and reset your cuts. I cut out the Kreg Mini Trak by size on my miter seen to fit each side. Then I test a fit track and rounded around the edges at each end with a file to keep them from catching on to anything. You can also just use a few passes on the saw table to make the groove the length of the fence. If you don't have a saw with a brake blade it's a much faster option. At this point I begin to put fences on the table saw a sledge. The front fence is basically just to keep the sled together once it is cut. I lined the fence on the far edge, then I predrilled and attached the fence with 1-1/2 screws. I then lifted the blade and cut through the front fence and base to about 3 from the back. I will use this cut line to install the rear fence of the table seen by the sledge. I flipped the transverse sled and used my counter bits to drill holes along the back edge. I made an extra at the end, which I will use to put my first screw in before adjusting. Then I flipped it back and clamped the fence in place, squaring it on the cut line as best I could. I fixed one screw at the near end and in an extra hole at the far end. Adjust the fence for Sledge PrecisionStep One Saw: Make the first Cut seriesI used the fence I use using The Ng 5 cut method is but simplified. I've moderated all sides of the 18 by 18 piece of plywood. Then I ripped off a small part of each side, rotating the freshly cut sides onto the fence after each cut. When I got back to the first side I made a big streak. I used my wicketkeepers to measure the front and back of the strip. I did some math and saw that I had 48,000 errors, but multiplied over 4 cuts. Thus, the margin of error for the length of my band was only 12 thousandths (dividing the error by 4). Using the William Ng method you would do some math to get an adjustment to the other end of the fence. Instead, I'm just going to make 12,000 adjustments to the exact length of my band. I made a mark where the screw was on the near side, which is my pivot point. Then I put the strip on that mark and made another mark at the end of the lane for my adjustment point. My stripe was thicker on the front and I cut out on the right side of the blade. So to fix it, I had to move the right side of the fence back. I pinched the point of a small piece of wood against my adjustment mark. Then I took off the screw on the far side and moved the fence back. I used a 12,000-sensor hess between the crowbar and the fence to set the new position. Then I snugged the fence against the time sensor and pinched it. I predrilled and put a screw in one of the other countersunk holes at the end. Step two: Make the second Cut SeriesI repeated the process of 5 cuts and took new measurements. The error was reduced by about 75% and me to 3,000 for 16-3/4, which is only about 8 thousandths or 1/128th more than four feet. Which is very good for me. I pinched the level to the fence to help resist any small movements until I screwed it up in place. Then I secured the fence in all places of the countertop hole, except for my original adjustment hole.6. Add the stop block and SplinesNext I grabbed my t-track, fixed it in place and started making a table saw the sleigh stop block. Stop Block is a simple design I got from Jay Bates. It's a small block with a spline on the back. The spliner will keep the block from spinning when locked. I used the sled to cut a small block of scrap and spline, which I adjusted to match the track using sandpaper. Then I tagged the block for a spline cut and cut groove for it. I made a few passes to cut the slot then glued it in place. It's a great fit without washes and block 1/8 from the base to make the sawdust to clean underneath it just like a fence. I took a stop-block to drill the press and drilled a hole in the middle of the line. I use a pen and t-bolt from Woodcraft. So to make room for the t-bolt I tagged it on my back and chiseled it with my WoodRiver nest chisel. Then I just attached a stop block to the table. Sled. Finally, I could do a security feature for Sled. I cut two blocks to 4x3 inches. Then I glued them together and rounded the edges. I used a baseball card as a shell, and attached a block to the back of the cross sled over the blade exit point. My blade can't be cut higher than a safety unit on a cross sled. So as long as I keep my hands on top or towards this block they will always be away from the blade. If you liked this DIY table saw the sleigh be sure to check out my other store designs. Time for a New Cross Cut Sledge! My old sleds were the best thing I've ever built for my shop, but there was one big problem with it... it was too big! So I decided to create a small sled that has the ability to turn into a large sleigh with an elongated wing. While I was at it, I decided to add a few more features, the ability to cut 45 degree bevels and adjustable fence to cut any angle you need! Check out the full build video below! Then I glued the strips using the level to make sure the fences would stay really straight and flat. Next I formed a base that took out part of the weight to make it lighter. This was my first time using the track seen and it completely lives up to the hype. If you don't have it, you can use a circular saw, a saw, a puzzle, a chainsaw... Etc. Next I made dados for t-tracks using a 3/4 router bit in my trim router. My folding router edge guide really came in handy here! But you can also use the dado stack in the saw table or make multiple passes with a single blade to create dados. I decided to go with HDPE for runner because it's really stable stuff, it won't shrink or expand with the seasons. I cut it out to match the miter slot and drilled countersunk holes in it. I used the fence as a reference to where to place the runner at the bottom of the base. This place is important because you don't want the runner to interfere with the dado on top where the t-track will go. I flipped the base and locked the runner with screws. Then cut in dados using 5 minutes of epoxy resin and screws. The base is complete! After the glue dried on the fences I trimmed them to the final size on the table saw and miter saw. Then, using a 3/4 router bit in my router table, I made a groove at the top of both fences to match the t-track. This can also be done on the saw table. I cut out the T-track in size and then attached it to the fences with screws. Please note that it was easier to line up to lengthen the fence with the main part of the sleigh, I compensate for the t-track a bit when installing it. Then I cut out the base for piece by size. And used the slot cutting bits in my router to create alignment slots for wing extensions. Then cut and formed some scrap material to size, so they fit into these slots. View like an elongated cookie. It can also be done with dowels or cookie joiner. I glued my homemade cookies into the slots only to lengthen part of the base and fence. The extension fence is now lined because of the cookies but it needs a way for it to lock in place. I cut out a few oak strips and screwed them to the back of the extension fence, making sure there is some overhang on the side. Then I lined the extension fence with the main fence and clamped the level up to both pieces to make sure they were completely parallel to each other. Then drilled two 3/8 holes straight through the oak strips into the main fence. It is possible that I over-engineered this part though... I think that just one piece of hardwood will be enough to extend the lock. I then installed threaded inserts into these holes on the fence. And oak strips. Now the lock mechanism is done! I put the threaded inserts in both pieces, but the styling is a threaded insert like this is not really suggested. If the pieces are not completely flush with each other they will not tighten because there will be a gap between the threaded inserts. So when I install the wing extension, I make sure the oak strip is completely flat against the plywood fence before tightening the handle. A few more finishing details before assembling it all! I added a chamfer to the bottom front edge of the fences to catch the sawdust and make the incisions more accurate. And used round more bits at all edges to be affected for a better feel. Time to collect it! I started from the back fence. It doesn't have to be square, it's just there to keep two halves of the sleigh together and keep it stable. (I cut corners on the sides just for aesthetics, I thought it looked cooler. ha) After being clamped I flipped the sled over, predrilled the holes and locked it with screws. Then I cut through the sled stop just shy of the front. The best way to square up to the front fence is by installing only one screw on one side of the fence. Then line up the square to the cut line made in the previous step and turn the fence until it looks completely square. Once the fence looks like it squares to the curb cut at the bottom of the base, block the other side of the fence. Make a few more test cuts to make sure the fence is actually square and then add more screws all over the fence to block it further.

Now that I know that the main fence is square to the blade I can install an extension fence for the area. I locked the extension fence in place using threaded inserts and handles. Then I clamped the level of both fences to make sure it stayed really flat and square. Clamped lengthen the fence on the extension base and locked it with screws. Next is the bevel! I put the blade up to 45o, miter and just made the cut! Super easy! I then made an adjustable jig fence. I took some some and used a 1/4 router bit in my router table to make a slot in the middle of the board. This can also be done with just a drill and drill bit. Then I glued these boards together, and jig is done! Maybe it would be better to glue the boards together before routing the slot in the center though. The reason I doubled the thickness of this fence is to prevent the gap on the back of my blanks. What's cool about this is that once you cut the desired angle at one end, you can use this to lock it in place for future cuts. And you can pre-cut all 4 corners of the fence to the corners that you normally use by flipping it on the other side. The last step is to attach the blade guard to the back of the front fence and it is done! Why I love this design: 1) The basic sleigh is light enough for daily use. 2) Expansion makes repetitive cuts easy on a longer stock. 3) The side can be used to cut long cosing, both for the parts of the box. 4) The adjustable fence can be installed at any angle that you need for your projects. Projects. table saw crosscut sled plans free. table saw crosscut sled plans pdf. table saw crosscut and miter sled plans. plans for the extreme crosscut miter dado table saw sled. table saw crosscut and miter sled plans pdf. plans for the extreme crosscut miter dado table saw sled pdf. mini table saw crosscut sled free plans

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