

LOWE'S creative ideas WEEKEND PROJECTS

WOOD,
METAL
& MORE



GREAT IDEA!
BUILD THIS BIRD FEEDER
WITH THE KIDS! p.6

10 GREAT
GIFTS FOR
YOUR DAD

MAKE DECK
SCREWS
DISAPPEAR

A CART TO
ORGANIZE
ANY ROOM

EASY PROJECTS
**9 TO MAKE
THIS SUMMER**

OUR STYLISH GARDEN BENCH,
WINE RACK & MORE



- 2 TIPS, TOOLS & TECHNIQUES**
Working with plywood, selecting wood for a project, and making screws disappear.



- 4 FATHER'S DAY GIFT GUIDE**
All chores and no play makes Dad a dull boy. Help him get things done faster with these time-savers.



- 6 BIRD WATCH**
Birds dine in style at this bird bistro built with the help of your kids.



- 10 FINE LINES**
Add a touch of elegance to your wine collection with a sleek display rack.



- 12 GARDEN VARIETY**
Six boards, a bag of screws, and a day in the garage are all you need to create this relaxation station.



- 14 1 CART, 3 WAYS**
Unorganized kitchens, craft rooms, and workshops look out! There's a new sheriff in town.



SOMETHING NEW

Welcome to the all-new *Creative Ideas Weekend Projects*. We've relaunched the magazine formerly known as *Creative Ideas for Woodworkers* with the intention of sharing great-looking projects, using wood and a variety of other materials, that are both easy to build and provide you with solutions for your home.

When we make things in the garage or basement workshop, we know it means sacrificing time. With *Creative Ideas Weekend Projects*, we aim to deliver ideas you can do in 1 or 2 weekends, and projects you can do with your family—whether it's a bird feeder you can build with that special little one or the 3-in-1 utility carts that can work in numerous places in your home. We hope you like the new look. We would appreciate your thoughts—and even project ideas—for future issues. Send your ideas to: *Creative Ideas Weekend Projects*, 1716 Locust Street, Des Moines, IA 50309-3023, or share them online at LowesCreativeIdeas.com/Community.

—LOWE'S CREATIVE IDEAS TEAM



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DECK IT

WHERE ARE THE SCREWS?

MAKE VISIBLE SCREW HEADS A THING OF THE PAST WITH THIS GREAT DECK FASTENING TOOL.

There are at least two good reasons why building a deck is a popular project: Most owners can do the work themselves, and a deck offers a great return on investment. Plus, a new deck just looks great. What doesn't look so good, though, are the popped-up nail heads and rusted screws that sometimes appear as time goes by.

That problem is solved with a new jig that hides the scores of screws needed for an average-size deck. The Kreg Deck Jig will work with any solid decking material between 1" and 5/4".

The jig guides angled screws into the edge of your decking, centering the fasteners over the floor joists. Using the steel-lined sleeves in the jig, one bit drills the holes, and a second bit drives the screws. Spacer rings in the jig kit allow for consistent board spacing and good air flow under the deck. Just secure one side of the board, re-align on the opposite side, and drive the second screw.

With one trip to Lowe's, you can get the deck material, the jig, and the screws to start building your investment.



Kreg Deck Screws

Every box of Kreg Deck Screws contains 700 screws—enough for a 10'x20' deck. These self-tapping screws won't cause splits, and a replacement driver bit is included in every box. Kreg Deck Screws are available in stainless steel (#184092) or Protec-Kote (#3630).



Kreg Deck Jig Kit (#177429)

Each kit contains:

- Instructional DVD
- 100 deck screws
- 6" Deck Jig drill bit
- 6" KTX square driver bit
- 1/4" and 5/16" spacer rings
- Stop collars
- Allen wrench
- Durable carrying case

Trex 1"x5 1/2" Square Accents Saddle composite decking available in 12' (#163807) or 16' (#166004).

q & a

LEARN HOW TO DO IT BETTER

q: I like to use plywood for shop projects and painted furniture, but I don't like the voids that occasionally appear. Is there a way to handle plywood edges without covering them with solid wood?

a: That's a great question! We love to use plywood in the shop as well—check out our “1 Cart, 3 Ways” on page 14. Use Durham's Rock Hard Water Putty to fill voids in the edges of plywood prior to painting or applying a clear finish.

Mix up Durham's to a dough-like consistency (approximately 3 parts powder to 1 part water). Press firmly into the cavity with a putty knife. Allow it to dry for an hour, then sand those plywood edges. The putty sands nicely, and the color generally matches the plywood. Use warm water to make the filler dry faster, or add a small amount of vinegar or milk if you want to slow down the setting time.

q: When I'm building my project at home, do I need to use the same woods used in the magazine?

a: Typically you do not, but selecting the right alternative is the first step to becoming a better consumer and woodworker. Not all woods are created



Durham's Rock Hard Water Putty is available in 1lb. (#41340) and 4lb. cans (#41341).

equal. Some soft woods such as pine, pressure treated, or cedar have different strength properties than hardwoods like oak, poplar, or maple. Some woods you may want to apply a stain to get warm tones; some might look best with a clear finish. Other considerations include weather-resistance, price, availability, and sizes sold. (These same considerations can be applied to plywood.) In our “1 Cart, 3 Ways” shown on page 14, for example, there are three choices for the same project based on intended use and location. Use your imagination, budget, and creativity to select the woods for your projects.



FATHER'S DAY GIFT GUIDE

TREAT DAD TO THESE TIME-SAVERS IN THE SHOP. HE'LL GET MORE DONE IN LESS TIME, LEAVING EXTRA HOURS FOR THAT GAME OF CATCH IN THE BACKYARD.

DOZENS OF USES, ZERO SET-UP TIME

Get the tool that can do almost anything Dad can do: cut wood, metal, tile, and plastics. The on-board blade storage and included wall mount make things even more convenient.

Rockwell BladeRunner Multi-Material Cutting Saw with Wall Mount, #346407



FOR MORE TIPS ON USING THE ROCKWELL BLADERUNNER:

LowesCreativeIdeas.com/Extras

SCAN THIS TAG WITH YOUR SMARTPHONE TO ACCESS MOBILE VIDEO CONTENT FOR THIS TOPIC. GET THE FREE APP AT: GETTAG.MOBI

MORE FUN THAN PAINTING

They say sanding is like watching paint dry. Not with this workhorse! Hook-and-loop sanding discs make for fast paper changing and deliver smooth results.

DeWalt 3-Amp 5" Heavy Duty Random Orbit Sander Kit, #121351



NAIL IT DOWN AND AIR IT UP

Complete with hose, oil, nails, and a tote for accessories, this air compressor kit will make his day. The 18-gauge brad nailer is great for light work; use the 2½" angle finish nailer for tougher tasks.

Hitachi 6-Gallon 145 PSI Electric Air Compressor Kit, #331410



CUTS AT ANY ANGLE

Projects that used to take a week can get done in a weekend with this miter saw. Complete with a laser guide, cuts are accurate and fast.

Kobalt 10" 15-Amp Laser Sliding Miter Saw, #141994



MEASURE UP

With 13' of blade standout, easy-to-read numbers, and a 100-year limited lifetime warranty, what woodworker wouldn't want one of these?

Bostitch 16' Tape Measure with Blade Armor, #193095

FILED AWAY

Clean up all sorts of rough edges with this 4-piece file set. Featuring a quick-release, interchangeable handle, it saves space in the tool box and makes burrs and rough edges disappear faster than a speeding bullet.

Kobalt 4-Piece SpeedFit File Set, #294684

A PLACE FOR EVERYTHING

Dad won't have to spend time looking for his tools if they're right at hand. This cotton apron has a place for everything.

AWP 11 Pocket Cotton Double Finisher's Apron, #120980

2 BLADES ARE BETTER

With this great time-saver, you can keep two knife blades at the ready—the InstantChange feature allows Dad to replace them in seconds.

Bostitch Twin Blade Knife, #314794

GOOD TO KNOW

Don't just work fast, take the time to teach the kids along the way. You'll gain a helper and a friend.

HIT THE NAIL ON THE HEAD

With AntiVibe technology and one-piece steel construction, this hammer can drive and pull nails faster—and do so while reducing vibration and arm fatigue.

Bostitch 16-Ounce Steel Rip Hammer, #327013

THE ULTIMATE GIFT GUIDE

Whether it's a gift for Dad, materials for a project, or finding that perfect BBQ grill, you'll find everything you need at **Lowes.com** or **m.Lowes.com** on your mobile device.



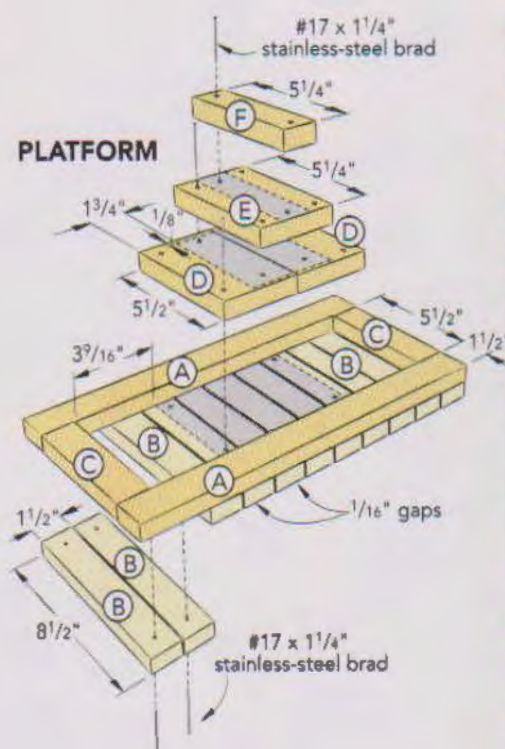
BIRD WATCH

LURE YOUR FEATHERED
FRIENDS TO THE
BACKYARD WITH A
HANDSOME FEEDER.

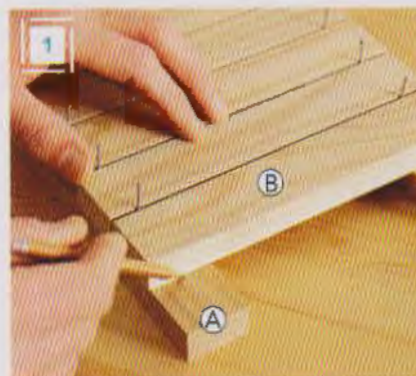
Every bird in the neighborhood will wing in to dine at this contemporary bird bistro! The project is built in two phases: Start by cutting all the parts to length and prepping for assembly—this part of the project is best done by an adult familiar with woodworking tools. Then you'll need your favorite assistant to help assemble the feeder.

Prepare the parts

- From 1" x 2" cedar, cut the stock for the base rails **A** and slats **B** to length (**Cutting Diagram, Cutting List, Page 9**).
- Align one slat with the ends of the rails and space the remaining slats $\frac{1}{8}$ " apart (**Platform**). We used brads as spacers. After placing all the slats, mark the final length of the rails (**Photo 1**).
- Mark the ends **C** to fit between the rails, and cut the rails and ends to length. Set the parts aside.
- Next make a feed spreader to help guide the feed out of the feeder under the Lexan panels. Cut the bases **D**, riser **E**, and cap **F** to length. Stack the parts as shown (**Platform**) and assemble the parts using glue and stainless-steel brads.
- Cut the fronts **G**, backs **H**, and roof supports **I** to length. Lay out the height of the front and back (**Feed Bin**) and draw a line to indicate the final length of the angled parts (**Photo 2**). Cut the parts to length using a miter saw.
- Cut the sides **J** to length. Sand all parts with 120-grit sandpaper, easing all edges.
- For the liners **K**, front **L**, back **M**, and roof panels **N**, cut the Lexan to size (ask your Lowe's associate for assistance). The sheets also can be cut using a carbide-tipped blade in a table saw.
- For the roof panels, laminate the two panels using silicone adhesive and use a weight, such as a concrete block, to press the panels while the silicone cures. When cured, sand the edges of all the Lexan panels using 120- and 220-grit sandpaper.



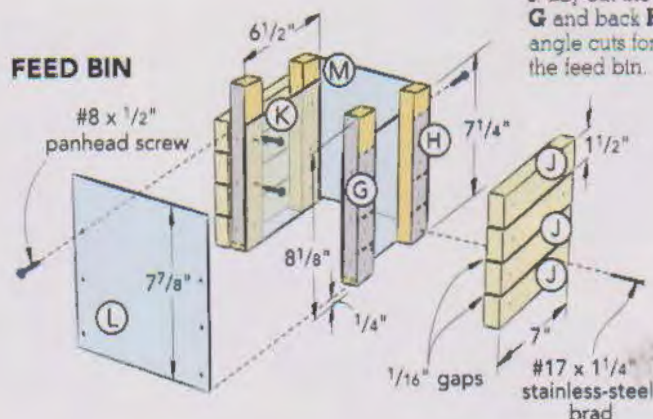
Different birds eat different feeds. Check out the great selection at Lowe's for feed specifically made for the birds in your region.



Use brads to space the slats **B**. With all slats positioned, mark the final length of the rails **A**.



Clamp the side parts **G**, **H**, and **I**. Lay out the height of the front **G** and back **H**, then mark the angle cuts for three side parts of the feed bin.



SEE HOW IT'S BUILT

USE A SMARTPHONE TO SCAN THIS TAG AND SEE A MOBILE ASSEMBLY ANIMATION OF THIS PROJECT. GET THE FREE APP AT GETTAG.MOBI OR FIND THE ANIMATION ONLINE AT LOWESCREATIVEIDEAS.COM/EXTRAS.

GOOD TO KNOW

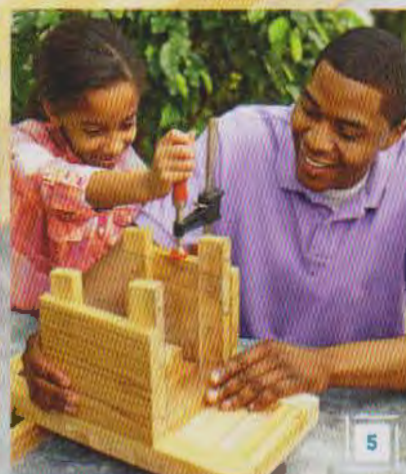
Prevent splitting the Lexan by predrilling holes slightly bigger than the screw threads.



3



4



5

3 Start the brads in the sides J, apply glue, and then hold the parts while you let your assistant finish the job.

4 Use a scrap to hold the Lexan $\frac{1}{4}$ " above the work surface; the feed will run through this opening.

5 Apply glue to the bottom of the feed bin and clamp in position, centered on the platform length, and with the sides flush.

6 Position and secure the roof to the roof supports. This is easier when you can see through the roof prior to painting.

Build it together

- With the parts all prepared and the cutting complete, grab your assistant and get started. Assemble the base, securing the slats **B** to the rails **A**, and install the ends **C** (Platform). Attach using glue and brads. (Use brads to space the slats.)
- Glue the base **D**, riser **E**, and cap **F** assembly in position, centering it on the platform.
- To assemble the sides, align the bottoms of the front **G**, roof support **I**, and back **H**. Place the sides **J** in position, spacing them with brads. Overhang the front and back by $\frac{1}{4}$ " (Photo 3). Use glue and brads to secure the parts. (The lid support is used as a spacer between the front and back so the top can slide into the feed bin easily.)
- Drill $\frac{3}{16}$ " holes in the liners **K** and position them on the inside faces of the side assemblies. Mark the holes and drill $\frac{1}{8}$ " pilot holes in the wood; your assistant can drive the screws that attach the liners to the sides of the feed bin.
- Stand up the two side assemblies and position the front **L** and back **M** on the feed bin sides (Photo 4). Pre-drill the holes and drive the screws.
- Set the now-assembled feed bin on the platform with the sides flush and the feed bin centered on the platform (Final Assembly, Photo 5). Secure with glue and clamps and reinforce the joint with 3" screws.
- Set the roof in place and mark the locations of the holes on the roof where it will be secured to the roof supports. Remove the roof, and drill $\frac{1}{4}$ " clearance holes in the Lexan for the screws. Reposition the roof, drill pilot holes in the roof supports, and secure with the screws (Photo 6).

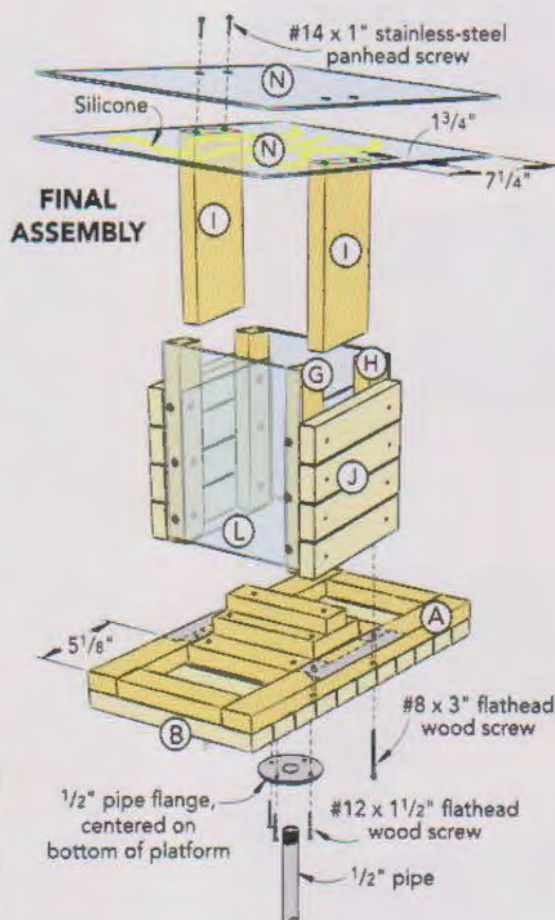
CUTTING LIST

	QTY.	PART	T	W	L
PLATFORM	2	A* rails (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	18"
	11	B slats (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	8 $\frac{1}{2}$ "
	2	C ends (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
	2	D bases (cedar)	$\frac{3}{4}$ "	3 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
	1	E riser (cedar)	$\frac{3}{4}$ "	3 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
	1	F cap (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	5 $\frac{1}{2}$ "
FEED BIN	2	G* fronts (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	9"
	2	H* backs (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	9"
	2	I* roof supports (cedar)	$\frac{3}{4}$ "	3 $\frac{1}{2}$ "	9"
	8	J sides (cedar)	$\frac{3}{4}$ "	1 $\frac{1}{2}$ "	7"
PANELS	2	K liners (Lexan)	.085	6 $\frac{1}{2}$ "	6 $\frac{1}{2}$ "
	1	L front (Lexan)	.085	7"	7 $\frac{1}{2}$ "
	1	M back (Lexan)	.085	7"	7"
	2	N roof (Lexan)	.085	10 $\frac{1}{2}$ "	18"

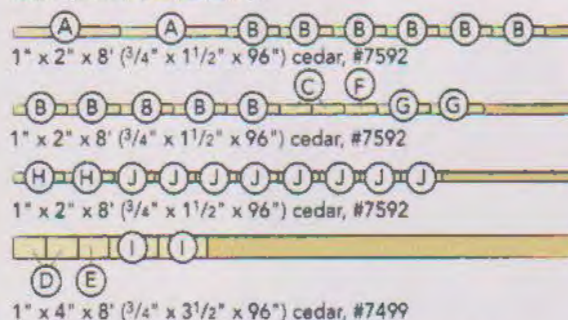
*Parts cut oversized; see instructions for final lengths.

Finish and install

- Remove the Lexan and apply an exterior stain to the cedar. Paint the roof, the pipe flange, and the pipe using spray paint, wiping the parts first with denatured alcohol. The paint we chose bonds to metal and plastic without primer.
- Reinstall the Lexan panels and attach the pipe flange, centering it on the bottom of the platform. Pre-drill and drive the mounting screws.
- Drive the pipe into the ground and spin the feeder onto the threaded end. (Protect the end of the threaded pipe with a block of wood when you drive the pipe into the ground.) When you need to fill the feeder, slide the roof up and pour in the feed.



CUTTING DIAGRAM



Availability varies by market for lumber species and sizes.

LOWE'S LIST

MATERIALS

- #17 x $\frac{1}{4}$ " stainless-steel brads
- #14 x 1" stainless-steel panhead screws
- #8 x $\frac{1}{2}$ " stainless-steel panhead screws
- $\frac{1}{2}$ " galvanized pipe flange, #22440
- $\frac{1}{4}$ " x 72" galvanized pipe, #24071

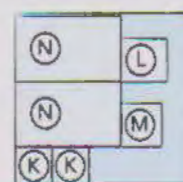
See Cutting Diagram for lumber list

Material Options:

Pine with a painted finish is a great alternative material for the bird feeder

TOOLS & SUPPLIES

- #12 x $\frac{1}{2}$ " flathead wood screws
 - #8 x 3" flathead wood screws
 - Liquid Nails 2.5-ounce silicone adhesive, #239057
 - 8-ounce Titebond III ultimate wood glue, #627
 - Rust-Oleum 12-ounce universal black spray paint, #233317
 - 1 quart Olympic Maximum Toner, cedar natural tone, #7316
 - 1 quart Klean Strip denatured alcohol, #148736
 - Miter saw
 - Drill with bits and driver
 - Sharpie marker
 - Random-orbit sander with abrasive disks
 - Hammer
 - Carpenter's square
 - Bar clamps
 - Paintbrush and rags
- Items may be special order in some stores; product availability may vary online or by store.



28" x 30" Lexan, #60407



FINE LINES

COMBINE CONVENIENT STORAGE WITH WALL ART. THIS SLEEK 6-BOTTLE WINE RACK IS A PERFECT FIT IN THE KITCHEN OR DINING ROOM.

No room for a wine cellar? Just store and showcase your favorite vintages on this compact rack—and impress friends with your handiwork.

Assemble the shelf

- From a 1"×8", cut to length the back **A**; from a 1"×4", cut shelves **B** and the top shelf **C** to length (**Cutting Diagram, Cutting List**).
- Drill $\frac{1}{4}$ " holes $\frac{1}{2}$ " deep in the shelves for the retainer pins (**Wine Rack**). Sand the parts with 220-grit sandpaper.
- To locate the repetitive pin holes in the shelves, make a pin-hole drilling jig (**Photo 1**). Use a scrap from the 1"×4" and a piece of $\frac{1}{2}$ "× $1\frac{1}{2}$ "×24" poplar. Cut the $\frac{1}{2}$ " poplar to fit the edge and end of the 1"×4" to make positioning cleats and nail them in place. The cleats locate the jig in the same position on each shelf.

TIP Drilling holes of equal depth is easy if you use a piece of painter's tape as a flag on the drill bit to indicate the hole depth (**Photo 1**). Place tape $1\frac{1}{4}$ " from the end of the bit, allowing for the thickness of the jig and the hole depth into the shelf.

- Attach the bottom shelf by drilling countersunk pilot holes on the back for the bottom shelf. Apply glue, clamp the shelf, let the glue set for 15 minutes, and then drive the screws.
- To ensure even spacing, cut two 4"-long scrap spacers and place them on the bottom shelf. Set the next shelf in position and secure it with screws. Repeat for the remaining shelves.

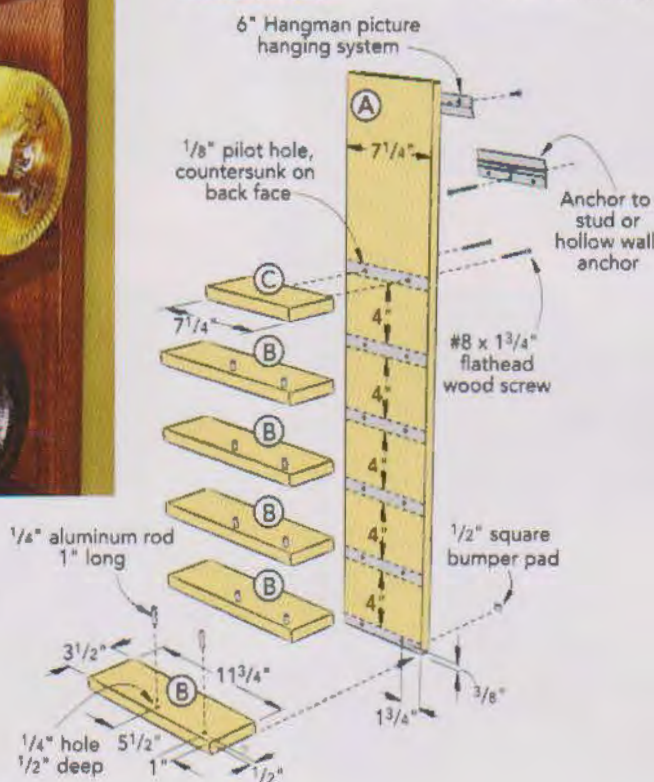


Use a piece of painter's tape as a flag to indicate the proper drilling depth when you drill the holes with the pin-hole jig.



Chuck $\frac{3}{8}$ " of each pin in a drill. With the drill flat on your bench for stability, spin the pin against a file. Buff the pin with an abrasive pad.

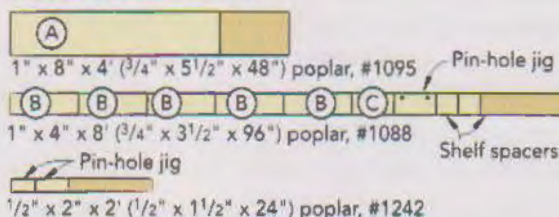
WINE RACK



CUTTING LIST

	QT	PART	T	W	L
RACK	1	A back (poplar)	$\frac{3}{4}$	$7\frac{1}{4}$	36
	5	B shelves (poplar)	$\frac{3}{4}$	$3\frac{1}{2}$	$11\frac{3}{4}$
	1	C top shelf (poplar)	$\frac{3}{4}$	$3\frac{1}{2}$	$7\frac{1}{4}$

CUTTING DIAGRAM



Availability varies by market for lumber species and sizes.

- For an even tone on a soft, light-colored wood like poplar, apply 3 coats of gel stain, allowing the stain to dry for 2 hours between coats. Then apply a clear protective finish according to the manufacturer's instructions.
- To make the retainer pins, cut $\frac{1}{4}$ " aluminum rod into 1" lengths with a hacksaw. Clean the cut ends of the pins with a mill file (Photo 2). Then use an abrasive pad to give the remainder of the exposed pin a nice sheen.
- Insert the pins in the shelves by supporting each shelf on your bench and tapping the pins in place.
- Add the Hangman picture-hanging system using the screws supplied. Center the hanger on the back 3" from the top. Secure the corresponding bracket to your wall, driving the center screw into a stud or using a hollow wall anchor. (The hanger includes a handy built-in level.)
- Add two rubber bumper pads to the lower back and hang the rack on your wall. Now fill it with bottles of your favorite vintages.

LOWE'S LIST

MATERIALS

- $\frac{1}{4}$ " x 3' aluminum rod, #216090
- 6" Hangman picture-hanging system, #56156
- Waxman $\frac{1}{2}$ " square bumper pads, #55660
- See Cutting Diagram for lumber list

MATERIAL OPTIONS: Oak, aspen, maple, and clear pine are great alternative wood choices for this project

TOOLS & SUPPLIES

- 8-ounce Titebond interior wood glue, #86091
- 1 quart Minwax mahogany gel stain, #101258
- Minwax 11.5-ounce semigloss aerosol polyurethane, #45873
- 3M between-coats finishing pad, #44655
- #8 x $1\frac{3}{4}$ " flathead wood screws

- Miter saw
- Drill with bits and #8 countersink
- Random-orbit sander with abrasive disks
- Mill file
- Carpenter's square
- Clamps
- Paintbrush and rags

Items may be special order in some stores; product availability may vary online or by store.

GARDEN VARIETY

ADD SOME SEATING TO YOUR GARDEN WITH A SIMPLE YET SOPHISTICATED BENCH.



Enhance and enjoy your lawn and garden spaces with this super-easy, build-in-a-day bench.

Make the base

Note: The wood used for this project can be left natural or you can apply a stain. If you choose to stain it, we suggest sanding the treated parts as you proceed using a random-orbit sander with 80- and 120-grit sandpaper. For cedar, a light sanding with 120-grit paper will do.

- From a 10' length of 4" x 4" cut caps **A** and legs **B** to length using a miter saw (**Cutting List, Cutting**

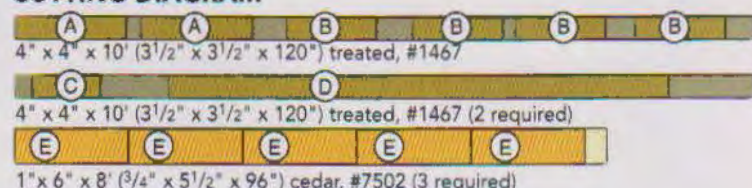
Diagram). Select the clearest material and cut between knots to get the best-looking stock.

- Secure caps to the legs using two 6" TimberLok screws at each joint. Note the fastener orientation of the screws at each joint (**Bench**) to keep from interfering with each other as you proceed.
- Measure the distance between the legs for the length of the stretchers **C**. Cut the stretchers and aprons **D** to length from the remaining 4" x 4"s.
- Turn the ends upside down and use two 6" screws to secure the aprons in position so they extend past the leg frames by 3½" (**Photo 1**).

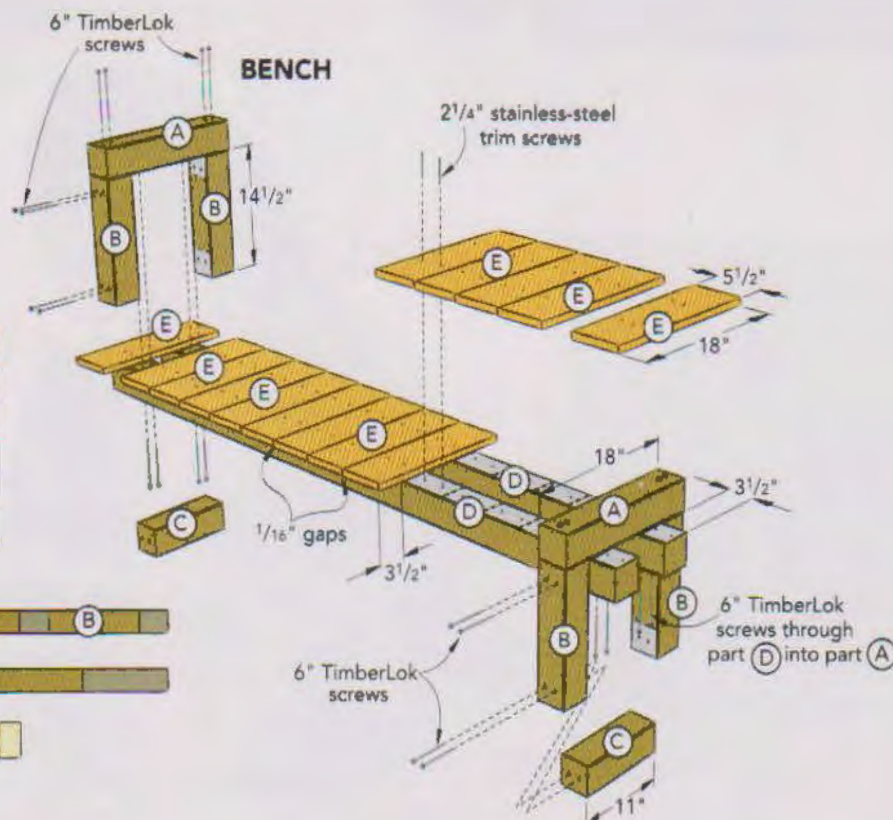
CUTTING LIST

	QTY.	PART	T	W	L
BENCH	2	A caps (treated)	3½	3½	18
	4	B legs (treated)	3½	3½	14½
	2	C stretchers (treated)	3½	3½	11
	2	D aprons (treated)	3½	3½	80⅝
	14	E slats (cedar)	¾	5½	18

CUTTING DIAGRAM



Availability varies by market for lumber species and sizes.



With the end frames upside down, drive the 6" screws through the aprons **D** into the caps **A**.



Rotate the bench on its side and drive the fasteners through the legs **B** into the stretcher **C** and apron **D**.



To equally space the slats **E** on the aprons **D**, use a 4d nail between each slat (and the caps **A**).

- With the aprons secured to the caps, roll the bench on its side and fit the stretchers between the legs. Secure the legs to the stretchers and aprons (Photo 2) using two 6" screws at each location.

Finish up

- Cut 15 pieces of 1" x 6" cedar for the seat slats **E**. Select the best 14 to install. (If you prefer, substitute treated boards or composite decking for the slats.)
- Before installing stainless-steel trim screws, drill a ⅛" pilot hole in the soft cedar (Photo 3). If you use treated or composite boards, countersink the holes.
- To apply a finish, remove the slats and apply the stain to the parts following the manufacturer's instructions. We used an opaque stain for the treated components and a toned stain for the cedar.
- When the finish has cured, reinstall the slats and place the bench in your garden to admire the view!



LOWE'S LIST

MATERIALS

6" TimberLok screws, 50-pack

2¼" stainless-steel bugle-head trim screws

See Cutting Diagram for lumber list

MATERIAL OPTIONS:

Cedar, Douglas fir, or redwood for the legs; redwood, composite decking, or pressure treated for the slats

TOOLS & SUPPLIES

1 quart Olympic solid color stain, Gibraltar gray, #20264

1 quart Olympic Maximum toner, cedar natural tone, #7316

4d nails for slat spacers

Drill with ⅛" drill bit

Random-orbit sander with abrasive disks

Carpenter's square

Paintbrush and rags

Items may be special order in some stores; product availability may vary online or by store.

PROJECT DETAILS

SKILL LEVEL INTERMEDIATE

ESTIMATED COMPLETION

3 DAYS

MATERIALS COST

\$175-\$225



PHOTOGRAPHED BY: CAMERON SADEGHPOUR HOW-TO PHOTOGRAPHS BY: MARTY BALDWIN AND JASON DONNELLY PRODUCED BY: MICHAEL DOWDY

1 CART, 3 WAYS



THIS ORGANIZER ON WHEELS ADAPTS TO THE KITCHEN, CRAFT ROOM, OR GARAGE. CHOOSE YOUR PROJECT LOCATION AND GET ROLLING.

Make a case

- Cut the plywood to size. Ask a Lowe's lumber associate to break the sheet down (**Cutting Diagram, Page 17**) to make transportation easier.
- Cut the case sides/divider **A**, backs **B**, tops/bottom **C**, and shelves **D**, **E**, and **F** to size (**Cutting List, Page 17**).
- Using a pocket-hole jig, drill pocket holes in the panels where shown (**Case, Page 16**). Sand the panels with 220-grit sandpaper.
- Assemble the case sides/divider and the backs (**Photo 1, Page 16**) using the small shelves as spacers to offset one of the backs.
- Position the case on the bottom panel and drive the pocket screws through the sides and back into the bottom to secure the assembly.
- For the two-layered-top Kitchen Organizer, apply the veneer edging to each layer with an iron and trim following the manufacturer's instructions.
- Secure the lower layer of the top to the case with pocket screws from the underside; then add the work surface to the top by predrilling countersunk pilot holes and driving screws through the lower top into the working surface as shown.
- Complete the case by installing the shelves in the front of the case. Set the shelves where shown and secure with glue and pocket-hole screws. Each shelf

should be positioned to create a 6"-high opening. The lower, larger opening will allow for a taller drawer. Or, customize for your needs.

Back shelves and casters

- At the back of the cart, add the remaining small shelves **F** as shown (**Back and Casters, Page 17**) with glue and pocket-hole screws.
- Cut the caster blocks **G** to size. Turn the case upside down, and secure to the bottom with glue. Inset the blocks $\frac{3}{4}$ " from the edges of the bottom.
- With the caster centered on the caster block, use the holes in the caster as a guide and drill $\frac{3}{16}$ " pilot holes; secure in place using lag screws and washers (**Back and Casters, Page 17; Photo 2, Page 16**).
- Cut four $\frac{1}{8}$ " $\times$ $1\frac{1}{2}$ " aluminum bars to length with a hacksaw for the shelf cleats. Drill $\frac{3}{16}$ " holes in the aluminum for screw thread clearance, and position the bars on the case. Mark the center points of the holes and drill $\frac{1}{8}$ " pilot holes. Drive the screws.

Simple drawers

- For the three drawers, cut pieces of 1" $\times$ 4" aspen for the short sides **H** and short fronts/back **I**. Repeat using 1" $\times$ 8" aspen for the tall drawer, cutting the tall sides **J** and tall front/back **K** to length. Sand inside faces with 220-grit sandpaper.



SEE HOW IT'S BUILT

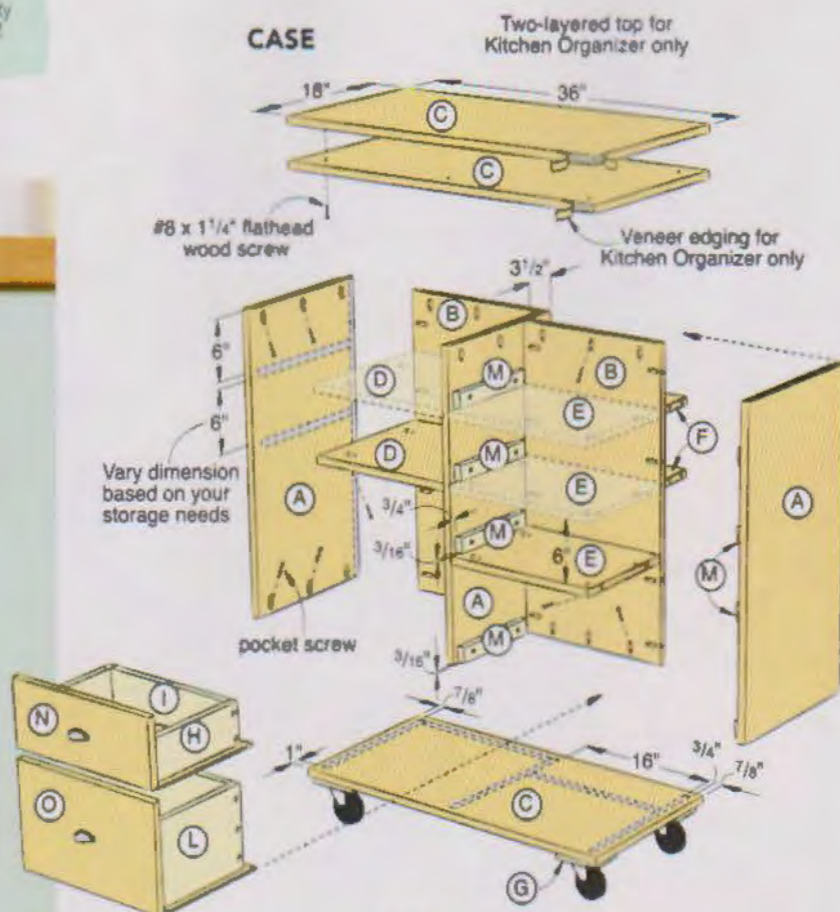
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1 KITCHEN ORGANIZER

CI 183
Tranquility
VALSPAR

- ❑ Made from birch plywood
- ❑ Metal accents make the cart shine
- ❑ Clear-finish top looks like solid wood
- ❑ Paint and pulls customized to your décor

MATERIALS COST: \$225



Use small shelves **F** as spacers to make the offset for the back **B**. Assemble the case sides/divider and backs using pocket-hole screws and glue.



After securing the caster block **G** on the bottom of the case, center the caster and drill pilot holes. Secure using lag screws and washers.



Screw the bottom **L** to the completed drawer frames, aligning the panel flush at the front and leaving an even overhang on the sides.

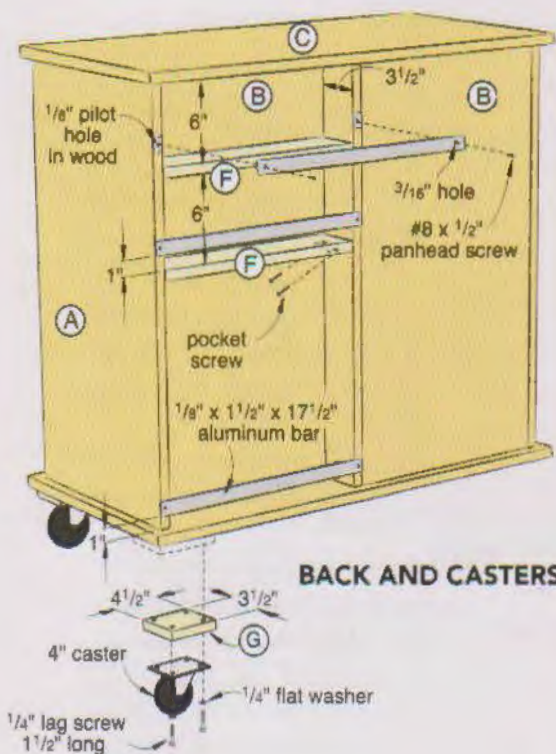


To create sliding room for the drawers, cut scraps of the hardboard as spacers to position the drawer glides **M** while driving the attachment screws.

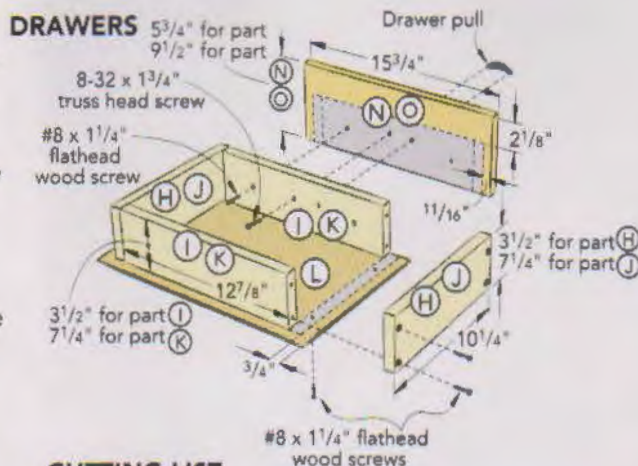


Use double-face tape to temporarily hold the drawer faces in position. Apply the face, remove the drawer, and secure the face with screws.

- Assemble the drawer sides and fronts/back (Drawers) using glue and screws. Sand the outside of the drawer boxes with 220-grit sandpaper.
- Cut the drawer bottoms L from $\frac{3}{16}$ " hardboard and secure to the bottom of the drawers using glue and screws (Photo 3). The front of the hardboard bottom should be flush with the drawer front and centered side to side.
- From a 1" x 2", cut 8 drawer guides M and secure in the drawer openings (Case, Photo 4). Place the guides $\frac{3}{4}$ " back from the front edge of the sides/divider A. This allows the drawer fronts to sit flush with the front of the case.
- Cut the short faces N and tall face O, $\frac{1}{4}$ " smaller than the width and height of the drawer openings.
- Slide the drawers into the cabinet and apply double-face tape to the front of the drawer boxes.
- Position the faces centered in the drawer openings (Photo 5). The double-face tape holds the faces in position as you attach the drawer pulls.
- Center the pulls on drawer fronts to locate the mounting holes. Drill $\frac{3}{16}$ " holes for the mounting screws. Remove the drawers and apply the pulls.
- To make the drawers slide smoothly, apply paste wax to the $\frac{3}{4}$ "-wide areas of the drawer bottoms that overhang the sides. Rub the wax on the top and bottom surface for smooth gliding.
- Drill holes in the sides A for the 320mm bar pulls. Remove all hardware and fill the edges of the plywood parts to be painted (see page 3 for tip). Apply a primer and paint to all but the top.
- Apply a clear protective finish to the plywood top.
- Reinstall the hardware.



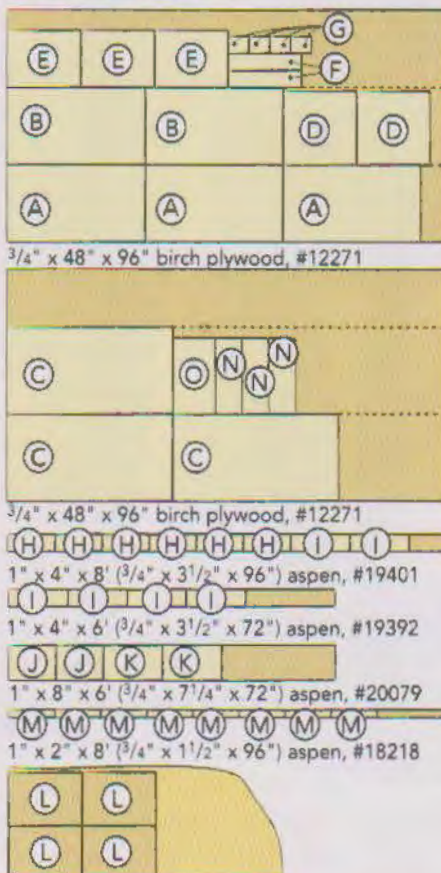
BACK AND CASTERS



CUTTING LIST

	QTY.	PART	T	W	L
CASE	3	A sides/divider (plywood)	$\frac{3}{4}$ "	16	30
	2	B backs (plywood)	$\frac{3}{4}$ "	16	30
	3	C tops/bottoms (plywood)	$\frac{3}{4}$ "	18	36
	2	D large shelves (plywood)	$\frac{3}{4}$ "	15 1/4	16
	3	E medium shelves (plywood)	$\frac{3}{4}$ "	11 1/4	16
	2	F small shelves (plywood)	$\frac{3}{4}$ "	3 1/2	16
	4	G caster blocks (plywood)	$\frac{3}{4}$ "	3 1/2	4 1/2
DRAWERS	6	H short sides (aspen)	$\frac{3}{4}$ "	3 1/2	10 1/4
	6	I short fronts/back (aspen)	$\frac{3}{4}$ "	3 1/2	12 1/4
	2	J tall sides (aspen)	$\frac{3}{4}$ "	7 1/4	10 1/4
	2	K tall fronts/back (aspen)	$\frac{3}{4}$ "	7 1/4	12 1/4
	4	L bottoms (hardboard)	$\frac{3}{16}$ "	11	15 1/4
	8	M drawer guides (aspen)	$\frac{3}{4}$ "	1 1/2	10
	3	N short faces (plywood)	$\frac{3}{4}$ "	5 1/4	15 1/4
	1	O tall face (plywood)	$\frac{3}{4}$ "	9 1/2	15 1/4

CUTTING DIAGRAM



3/16" x 48" x 96" tempered hardboard, #15486.
Availability varies by market for lumber species and sizes.

LOWE'S LIST

MATERIALS

100-pack Kreg 1 1/4" fine-thread screws

2 - 4" locking swivel casters, #4491

2 - 4" rigid casters, #235614

2 Gatehouse satin-nickel 320mm bar pulls, #227450

4 Gatehouse satin-nickel cup pulls, #227349

8-32 x 1 1/4" truss head combo screw

16 - 1/4" x 1 1/2" zinc-plated lag screws

16 - 1/4" flat washers

2 - 1/8" x 1 1/2" x 3' aluminum flat bar, #29186

Band-It 3/4" x 25' birch iron-on edge banding, #16546

See Cutting Diagram for lumber list

MATERIAL OPTIONS:
Poplar and pine are great alternative wood choices for the drawers in this organizer

TOOLS & SUPPLIES

#8 x 1 1/2" panhead screws

#8 x 1 1/4" flathead wood screws

8-ounce Titebond original glue, #86091

Minwax 16-ounce satin polyurethane, #24499

See each project for primer, paint, or stain needed

Miter saw

Table saw

Hacksaw

Drill with driver bits and #8 countersinks

Pocket-hole jig

Random-orbit sander with abrasive disks

Carpenter's square

3/8" wrench or socket

Bar clamps

Painter's tape

Paintbrush and rags

Items may be special order in some stores; product availability may vary online or by store.

2 CRAFT ROOM ORGANIZER

- On-board stool storage for easy organization
- Made from Arauco plywood with a deck stain
- No edge banding needed for a great look
- Stylish handles are as cool as your crafts

MATERIALS COST: \$195

Deck stain
Driftwood Gray
CABOT

CI 112
Soft Coral
VALSPAR



LOWE'S LIST

MATERIALS

2 - 3" swivel locking casters, #235589

2 - 3" rigid casters #235612

4 - Gatehouse satin-nickel 128mm bar pulls, #227444

See Cutting Diagram for lumber list

ACCESSORIES

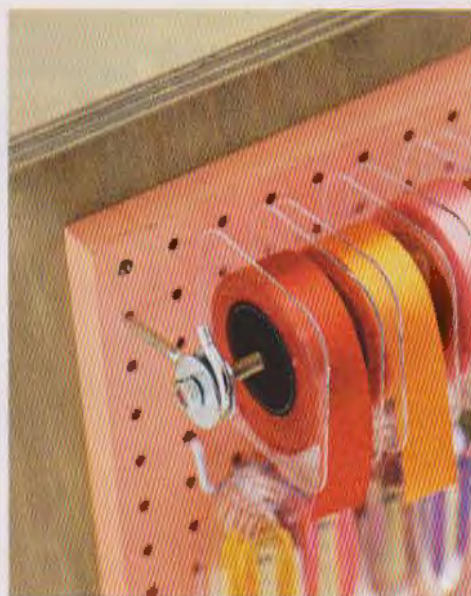
29" Espresso oval bar stool, #312836

Real Organized 11.25" x 5.9" copper rectangular basket, #24632

Umbra grasp paper towel holder, #243388

Brushed-nickel tumblers, #298355

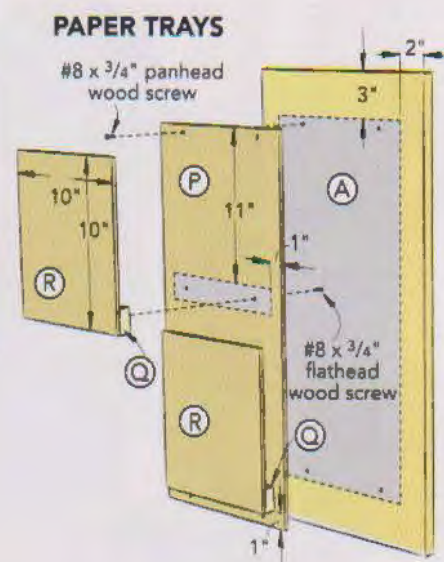
Items may be special order in some stores; product availability may vary online or by store.



Keep ribbon spools organized with two eye hooks, a threaded rod, washers, and nuts. See page 21 for storage rack details.



Show off your craft skills and keep invitations at the ready with this wood rule (Lufkin 6' folding mason's rule, #75291).



Crafty cart

- To make the Craft Room Organizer, omit one of the backs **B**, one layer of the top **C**, and the large shelves **D**. Assemble as you would the Kitchen Organizer, and apply a semitransparent deck stain to the plywood. This is an easy-to-apply finish that will bring real zing to your craft room. When the stain has cured, apply a clear protective finish.
- For the Paper Trays, cut the backer **P**, spacers **Q**, and holders **R** to size (**Cutting Diagram**, **Cutting List**).
- Glue the spacers in position on the holders (**Paper Trays**).
- Sand, prime, and paint the parts, and secure the trays to the backer with $\frac{3}{4}$ " flathead screws.
- Secure the assembled paper trays to your cart with panhead screws as shown, centering the trays on the width of a side **A** and 3" from the top.

CUTTING LIST

	QT.	PART	T	W	L
TRAYS	1	P backer (hardboard)	$\frac{3}{8}$	12	25
	2	Q spacers (aspen)	$\frac{3}{8}$	1 $\frac{1}{2}$	10
	2	R holders (hardboard)	$\frac{3}{8}$	10	10

CUTTING DIAGRAM



Cut parts P and R from the 48" x 96" hardboard used for the drawers.



1" x 2" x 6' ($\frac{3}{4}$ " x 1 $\frac{1}{2}$ " x 72") aspen, #17907

Availability varies by market for lumber species and sizes.



3 GARAGE ORGANIZER

- ❑ Made from affordable BC pine plywood
- ❑ A wipe-on finish is fast and durable
- ❑ Easy mobility with big casters
- ❑ Super-easy drawers add versatility

MATERIALS COST: \$175

12-ounce aerosol
Medium Gray
VALSPAR



LOWE'S LIST

MATERIALS

2 - 4" locking swivel casters, #4491

2 - 4" rigid casters, #235614

Wall-mount hose reel, #220028

See Cutting Diagram for lumber list

ACCESSORIES

Shop-Vac 5-gallon 5.5 peak HP wet/dry vacuum, #127133

Kobalt 19" hammer box, #336420

Utilitech 25' 14-gauge extension cord with light and strap, #59585

Hyde painter's pyramid, #232223

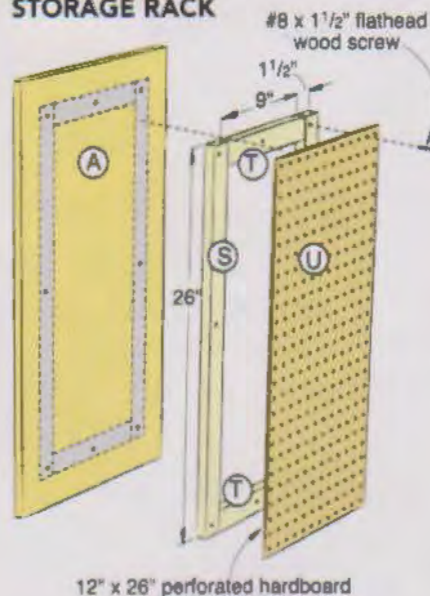
Bostitch 24" box beam level, #293935

Items may be special order in some stores; product availability may vary online or by store.



Fill up the drawers, but keep them organized with Stanley storage bins, #101945.

STORAGE RACK



With the addition of a storage rack, one side of the cart goes from wasted space to bang for the buck! (Real Organized tool hook, #267951; 47-piece organizer, #267954; and peghook basket, #267969.)

Take charge of the garage

- For the Garage Organizer, use affordable BC plywood. Omit one layer of the top **C** and the drawer faces **N** and **O**.
- Assemble the cart using the same procedures as the Kitchen Organizer, and apply a clear protective finish to the plywood. A clear finish protects the project from stains.
- For additional versatility, add a storage panel to the one side of the organizer. Cut 1" x 2" aspen for the end stiles **S** and rails **T** (**Storage Rack**).
- Cut perforated hardboard for the panel **U** to match the size of the frame; secure to the cart using glue and screws as shown.
- For a finished look, we spray-painted the storage panel medium gray. We even gave the cord-holder a coat of paint to enhance the look.

CUTTING LIST

	QTY	PART	T	W	L
RACK	2	S stiles (aspen)	3/4"	1 1/2"	26
	2	T rails (aspen)	3/4"	1 1/2"	9
	1	U panel (perforated hardboard)	3/16"	12	26

CUTTING DIAGRAM

1" x 2" x 6' (3/4" x 1 1/2" x 72") aspen, #17907



3/16" x 24" x 48" perforated hardboard, #7060

Availability varies by market for lumber species and sizes.





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- Encourages reading and following directions.
- Offers parents and children quality time together.

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UPCOMING PROJECTS

MAY 28 10 AM Biplane	JUNE 11 10 AM Goofy Golf	JUNE 25 10 AM Waving Flag	JULY 9 10 AM Tow Truck	JULY 23 10 AM Binoculars
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