







Dust-Free Blade Cover

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different ways to help make your shop better organized. Typically, this involved some sort of shap-built cabinat system. The only discreticle to making a complete set of your costs cobinets is it can be a bit time consuming. So this time we took a different approach by

starting with any-to-assemble, reconslicted strong coltinets. Then we designed a few cushum options to make the cubinets work even beine. For starters, we built only-access, under-courser nod cubine, a specesarring filip-up workberch, and overhead lighting. Fully, we applied a sharplooking, two-tone paint finish for protection.

The best thing about this project is you have lots of options, so you can easily make it it your shap space and your needs. For more on creating, your own one wall workshap, be sure to check out the article beginning on your 16.

Tem

SWINNE SXYNAS

mation available or line www.ShopNotes.com



Tips for Your Shop

Miter Clamping Jig

Chang and affirming a single mitter, joint can be a challenge. It's often hard to get the joint lined up and then hold everything to place until the glac dries. So make this mak onies. I half the diemping jig you seen in the phase above. As shown in the deriving below, the six constitution of a large base of

shaped blocks have a longue at the bettern that allow its a groove in the base cleat to hold the pieces from the side. Sendpoper attached to one edge keeps the teorispiece from slipping. A third triangular block travels on a 1-track so it can

at ig. I wased all surfaces to provere
uny glue from sticking to the parts.
To see the clamping ig., apply
ad a construction of the base
or with the mitmed edges potenting
toward the bottom edge of the ig.
Be same to carefully center three
pieces on the Tstrack.

Next, slade the inside clemping block against the workpieces and sighten the knob. Then move the orthode clamping blocks into position and clamp them is place with a bar clamp. For maximum pressure, position the bar clamp new the base

Now just let the Jig hold the pieces in place until the glue dries. Soplen FAria

DE VIEW TO CLEW



Nozzle Wedge

The pull-up recozle on some glue bottles helps dispense the glue and keeps throm bardering, when not in use. But dried glue is usually securations make the nearly, making it hand to open the nearly making it hand to open the nearly making it open to our up the nearly evertically making it unmable. To salve this pecklem, I built the hand to have the nearly evertically making it unmable. To salve this pecklem, I built the

To solve this problem, I built the simple tool shown in the photo at right to help lift up the nozzle. The tool has a slot at one end that's sized to fir the nozzle. It's long so you can use it as a lever to easily lift the nozzle without

deing any damage to it.

The nextrle lifting tool can be quickly built from a piece of % thick handwood. Start by drilling a hole at one end the some size as the nextle of the bottle.



Then use your bind saw to cut away the use waste to form the ristch. Than cut a bevol at the end with the neath, as shown in the drawing below. Faully, round over all edges of the wedge with sandpaper.

List Obtile to Africe. Owner.



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The Winner! Congressistations to Stephen Ehrich of Louisville.

Kentrucky. His tip on making a mitter clamping jig was selected as winner of the Proten-Cable router part like the case allower the tip of the protent cable router part like the case allowers the tip, The jig makes it easy to clamp up a single mitter joint and hold it in position until the glus driss.

To find out how you could wise a Partial-Cable router, chack out the Information Makes Wort In Just moth the Just Tool House Cable router, and moth the Just Tool House Cable router, and moth the Just Tool House Love In Just Protect Tool House Cable router, and moth the Just Tool House Love In Just Protect Tool House Cable router, and moth the Just Tool House Love In Just Protect Tool House Cable In Just Protect Tool House Love In Just Protect Tool House In Just Protect Tool House In Just Protect Tool House In Just Protec



Edge Trimming

Whenever I use phywood to build a project it usually means having to deal with exposed phywood adjess that need to be covered. But you'll find a few challenges to applying edging and making it look great.

eed, I like to start with the edging just a hair wider than the thickness of the physocol. Then ence the gitacine, the edging can be triumed thank, I like to use a hand-held souter with a flush true bit to do this. But the challenge is balancing the ecutor on the edge of the physocol to make a clean cut.

To provide stability to the panels while I muted the colors, I used to damp two panels on edge with a craps between them. But accomplishing this absenysement to take useer hands than I had to get everything clamped in place. To make the job coster, I made the yourd supports shown in the place at right.

scrap pieces of stock. I made mine from Vr phymosol. Each support heights with is Augh has to provide or area to climp the support to the workheeds. Meet, gluup host layers of phymosol to create a orient director and HISGs. It verying the control to the base. This separation the two parels to be htermed and provides a wide suntine for climpting the parels securely in proteins. Then, to half the phymosol percels in place while I stituch the clamps joint and a shorter cuided support on on their side.







Easy Storage Bins

you used to find in hardware stores. To duplicate this look, I built the storage birs shown in the photo at right. The bire have ample soom for storing

The two taxe ample room to ensuring bulk hardware items and keeping the parts in plain view. The pull on the front forms a hollow area underneath the top. This makes it casy to get your fingers under the pull wherever you need to slide the bit out to sent at the north.

Out to get at the parts.

The birs are simple to can make them longer or

can instance the surger or water to fit your needs. They're so easy to build you? I want to make a number of them once you start. Begin by cutting the phywood proces to width. I med a step block on my table saw to eroure the pieces were out to identical lengths. Next, you can cut out the 'g' hand-

lengths. Next, you can cut out the it's handboard rides. Since I warried to make several brin, I find made a pattern of the sides. Then it was just a matter of using a patiens bit to trim the sides to shape at the curder table. This way, all the sides are exactly the same. Ascentiling the bits is quick and easy loo, but apply glas to the edges and clamp loo. Just apply glas to the edges and clamp

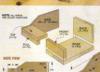
Assembling the bits is quick and easy too, had apply glae to the edges and clamp the parts in place until the glae is dry.

Now all that's left is so fill the bran with buthware. Then you can set them on a shall or your workboach. Your bulk handware.

velli ahvays be easily accessible.

Genéli W. Reskee

Carlibal, California



Quick Tips



A Robert Moore of Crostos, NE, uses an ordinary rubber band to help contact the cond on the rocker when it's nor in uses the samply worst the rubber band over the cond and than places the other and over the handle.



A A used file cabinet provides Charles Mak of Ceigary, Carada, with storage space for his power tools. The tools are organized and safely stored out of the

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With a simple auxiliary fence and a few common router bits, you can make great-looking raised panels.

Solid-wood raised panels are one of those wood working details that always draws attention to a a secut option for creating crisp, strag-fitting raised common, inexpensive bits along with an adjustable How It Works. Take a quick look at the photo above

to the table or tilled up to 15°. This allows you to cut

you will need a little explanation of the basic setup of

The main photo above shows how to set up the

have less "chafter" and leave a cleaner surface



table with the fingers riding lightly against the panel. The footherboard raises it above the cuttime betefit of Pinally, a brace clamped to the table

helps hold everything in place. Routing Basics. That covers the pouter table setup. Next. I'll up make a common style. You'll find a couple of different profiles in the

face, you want to cut the bevel with multiple, shallow passes, as shown in Figure 1. To start, will only out along the outside refers of the panel. Then between passes, unclamp one end of the fence and slide it a little closer to the bit. Initially, you can cut about "full-length," lighten up to take no more than '62' at a time.

Left to Right, One very imporis fed from left to right. This is,

across one end of the panel, moving it slowly but steadily. The

Once all four edges have been www.ShonNones.com



featherboard if the feed starts to

A Snug Fit. The best way to end as you go. So I always have a finand allow you to sneak up on a tight fit. I stop cutting when the namel is still a buir tight in the with scene light sanding

Now, the Shoulder, Making the is easy to remedy and also alleses

process here involves carefully cutting a square, chamfered or rounded shoulder. To do this, the face down, flat against the table

A The Cleasic

crease a classic

raised peno

Look. A ceresis:

sanding to smooth the transition As you can see, there's nothing difficult about this technique. It's

to your next project.





MATERIALS & Hardware

heavy-duty

Wall **Anchors**

Can't find a wall stud? These fasteners will solve the problem of hanging heavy loads

> After completing a short cabinet. workbench - no problem, right venient place to hang the cabine right when I wanted it. So I made a trip to the hundware store to look.

I ended up mounting the cabinet These featurers distribute the



Wings snep open when

finding them at a hundware store,

home center or you can refer to has solid masonry walls, you'll opposite page for a less options.)

TOGGLE BOLTS

One of the most familiar and common anchors you'll find at the handware store is a toggle bolt, as mason for floir popularity is that they'll hold a lot of weight (up to

Dewnsides, Although a toggle bolt sounds periort, it does have a few description. The first is that they can be tricky to use when

the cabinet back first Then you This leads me to the other draw back of tough boils. If you ever

wings will fall into the bottom of SELF-DRILLING TO

To address the problems with toggle builts, you can turn to a self-drilling toggle. This type of topple belts. First, the onchos but a screenfriver - without





of the screw then engage the toggle expensive than toggle holts (about the only downside to self-drilling toggles is that they aren't as strong

SNAPTOGGLE

toggic bolt (high load limit - 80 how it's tretalled. Strength and convenience like this come at a price through The SparTurels well-Armed with any of these grebors. you should have no trouble base

Collar holds A SnepToggle, Hore's con ancho





Ext right where you want it. Solutions for: Solid Walls

test fine in stud wells. But what if your walls are mesoney? Don't were, here are three great options. Expansion Bolts. The solution I use most offen to muride a sone forces those metal firs to expursi

against the inside of the pilot hole Expansion Inserts. Alone the

Expansion Bell, Fold-on Toron Screen The simplest

to a woodscrew, the coefing and francis are designed for holding in masonry. The advantage is the you choose, you'll need to drill a package). To do this, voy'll need a







Your router and a couple of bits are all you need to make perfect-fitting plywood edging every time.

difficult to get a good match with Physmod is a great material for building process. But there is a problem - the exposed edge ann't very attractive. The solution is to glass a strip of

ofgen. But you'll find lenges when it comes

> The stries often as you deep from in place. And you mustly need to trim them fluid two edging bits for our with it. thick material. A set for 16' material with the surface once the char dries. It's also often

the system to the hardwood edgine Fortunately, these challenges on

Most of the difficulty in applying the strip and clamp it in place. And there's a lot more surface any los edging comes as you position and the clue to make a strong bond. other the edging strip in place. The photo at left helps you noise those peoblems. This system consists of

The bit on the left outs a recent in the eslar of a %' physicood panel. And the bit on the right makes the These bits provide several advantages. First, the edging self

Each piloted bit comes with two D16" stred shims already installed wood flue if your plywood h slightly thirtner or thicker, additional .010" copper shins come with





ShortNotes No. 90



the bits to help you make sure the matching profiles line up compethy There are also .048' shims to make it easier to work with materials like

melamine and MDE The whole process is pretty

getting everything set up properly:

BIT SETUP

When you look at the bits, you'll see they come with bearings for

them with a router table and fence

marger to ensure the pieces will

A Convex Hardwood Bit. Continue the can "fine-tune" the hit height at the

edge on the scockniere

Since you've tust completed the setup up for the plysecod edgine you'll need to spend a little time profile, the setup for this bit is easy. Convex Bit. To create a perfect hashwood profile metch, wor'll

reant to use the same configuration merns if you added shims, you'll With the setup complete, you

I also found it's necessary to can use an estra-wide piece of begin by planing the hardwood hardwood to safely rout the corner profile (center drawing above)

> Adding a Bullnose

find it easier to cut the concave profile on the plywood edge first. That's material can be done in a single router dean fit of the edging strip is to leave an equal. thin lip of veneer on the top and or lower side of the cutters to allow you to bottom faces of the plewood (left drawing obover. This year, I'll be the physical thickness. Then clamp a wraight

Practice First, You'll want to molec a few practice cuts so won



Trim the Edge Once the wheel

dries, you can decide how you want the edging to look. As shown edging a different appearance.

a solid argentings or leave a little

you'll have a fine finished look &



Our Shop

Shop Short Cuts



Routing a Hinge Mortise

When making the hinge mortises for the bench extension on page 16, the benchtop and the extension should fit tightly together with the top faces flush. So, it's important to locate and install the hinges in each piece correctly (inset photo).

piece correctly (inset photo).

After locating and marking the mortises on the benchtop (Figure 1), you can start removing the waste. I used a trim router with a clear plastic base because of its small size

ACCENS OUTLAND OUTLAND OUTLAND OUTLAND

and excellent visibility (main photo above). To provide stability for the one router, it's a good idea to attach a support block while routing away to the waste. The block also helps pre-

After routing away most of the waste, the next step is to clean up the edges with a chisel (Figure 2). The score marks you made to

to Extension Mortise. To locate
the mortises on the extension, pull
a out the supports, set the extension
on them, and butt it up to
the benchtop. Then, transfer the
location from the benchtop to the
extension (Figure 3). Now, you can
are the matching mortises using
the same before.



Accurate Dog Holes

The size and weight of the benchtop extension on page 16 makes it too unwidely to drill bench dog holes which the drill press. So, I used my hand drill. To keep the hole spacing consistent, as well as to guide the drill bit square to the benchtop, I made a simple indexing jig, as shown in the drawing on the right.

A clear registers the jig along the edge of the extension. A \(\) dowel in one hole maintains the spacing while the next hole is drilled. And finally, rout a chamfer around each hole to soften the edges and prevent chipout when removing the bench dogs.



Cover Support Option

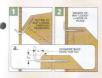
The blade cover on page 36 is designed to attach directly to a cast-iron wing or extension table for support. But the stamped steel wings on many table assess may flex. So, to provide adequate support, a different mounting configuration may be required. The photo on the right shows a good solution to that problem. Installing a sturyd support beam between the force rails is the first step. Detail 76 shows how the support beam attaches to the rails for the table saw force.

beam attaches to the rails for the tal Now, you're ready to attach the support mast to the beam. The notch in the mast is sized to fit snugly over the beam (detail 'a'). It provides a solid, wiggle-free connection between the two parts.

Finally, extending a metal brace from the lower part of the mast to the underside of the table saw eliminates any flex in the lower part of the mast (inset drawing).







Bin Hangers

Bins that hang on pegboard are a good storage option for the one-wall workshop on page 16. And these bins

are attached by using versatile L-hooks.

Detail 'a' show how the L-hooks are installed in each bin. To hang the bin, it! it so the L-hooks slip into the holes of the pegboard (Figure 1). Adding a chamfer holes with this. Then tip it down so the weight of the bin "looks" the L-hooks in place, as in Figure 1.

This makes it almost impossible for the bin to fall off of the pegboard, yet makes it easy to move it around as your storage needs change.

Bench Extension Modification Adding a tail vise to the benchtop extension on

page 16 can be a lot of work. If you'dl rather not install the view, you on gain more work area by making the extension longer. This is just a matter of filling in the space originally used for the view. Even without a view, it's still a good idea to effill bench dog lobes. You can drail the holes districtly into the benchtep, using the indexing light infull bench dog poles. You can drail the holes of the provisor page. That allows you to use bench dogs and some other works bench accessives, like the Virnia Winder Page. The Page is a clamping bench dog that acts like a small view. Effect for Sources on page small view. Effect for Sources on page 3.



storage solutions

workshop

Turn a wall into the ultimate workcenter with these easy-to-build cabinet add-ons.

The problem with most garage or basement shops is that they end up looking like the one you see in the inset photo on the opposite page. The challenges are finding enough storage, organization, and worksurfaces to work on projects.

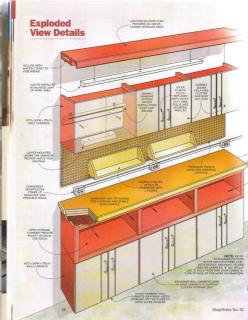
One-Wall Workspace. That's where the "one-wall workshop" you see in the main photo really you fill the bell. It starts with standard garage shop cabinets you can purchase enline or pick up from a local dealer. This way, you can constrate on organizing your shop and working on projects instead of spending time building basis storage calbiests and doors. It you look dooely to call see that

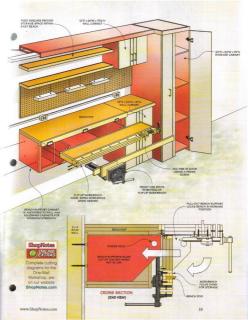
If you look closely, you'll see that I've "souped up" the cabinets with custom storage compartments, shelves, pegboard, and lighting.

Workbench. What I like bost about this setup is the workbench. You can see in the photo this beech has everything you need for building projects, including views and a row or bench dog holes. And when you feal lide one for the day, the front of the bench drops down out of the way like the leaf of a dining table. So, by using manufactured cubires and adding some customs features, you can turn a single wall into a great shoot area.











Section

To get started on your own onewall workshop, you'll need to choose and install a set of wall cabinets like you see on pages 18 and

19. Then you can build the accessories to fit them. (You may have to modify a few dimensions to fit the cabinets you use.) The drawing in the left margin shows the heights I used for mounting my cabinets.

You can start with the lower section, as shown in the photo above. To save space in my shop, I used wall cabinets mounted as base cabinets. They aren't as deep as standard base cabinets. Plus, I mounted them off the floor to prevent damter for the cabinets of the cabinets.

them off the floor to prevent damage from moisture and to make it easier to clean underneath them. Open-Front Storage. The challenge with a small work area is

senge with a small work area is finding a place to store tools like my bench grinder, circular saw, and router. That's where an openfront cabinet comes in handy. It fits on top of the three lower cabinets (photo above). Building a Case, Figures 1 and

Building a Case. Figures 1 and 2 will show you everything you need to know to build the openfront cabinet. Dadoes and rabbets are used for all the joinery.

After gluing up the case, add the filler strips on the bottom. They give the screws a place to grab when you fastern the open-front cabinet to the cabinets below.

Face Frame. The face frame serves two purposes — it both

b. FRONT FRONT END VIEW BENCHTOP ()

a. TOP SECTION VIEW

IDE SECTION VIEW



A Overhead Lighting, Lighting mounted in the valances light up



A Task Lighting, Lights mounted under the upper wall cabinets are

case. You can simply cut each of the pieces to fit and glue them in place, as in Figure 2. I rounded the outside edges of the two end stiles before attaching them to the case. After the face frame is complete, it's time to work on the benchtop.

Laminated Top. The top of the cabinet consists of two pieces of MDF that are glued together (Figure 2). This makes a solid and smooth worksurface. Then it's just a matter of gluing hardwood edging on the front and left end. (The right end will butt up against the workbench section you'll build later.) Now you can fasten the top to the cabinets with screws (Figure 2b).

Before moving on to complete this section of the project, go ahead and install the three upper wall cabinets, as shown in Figure 3. You'll work on adding lighting and pegboard storage next. Plenty of Light. One thing

most shops never have enough of is adequate lighting. To solve this problem, a valance is added to the top of the upper wall cabinets to

FRONT LIGHT RAIL (2) TOP PANEL NALOGE TACK protects and hides the edges of the a. END VIEW

> hold fluorescent fixtures (Figure 3). They cast a bright, broad light into the work area. Then for those close-up tasks on the workbench. under-cabinet lighting is just the ticket (photos above)

Building the Valance. If you look closely at Figure 3a, you'll see the valance is constructed like a hollow box. This creates a raceway for running the electrical wires for

the fluorescent lighting. I added the front rail before attaching the valance to the cabinets. Then it's just a matter of mounting the lights and making the electrical connections.

Under-Cabinet Lights, Small, halogen fixtures provide task lighting under the wall cabinets (Figure 3). You can wire them to a switch or plug them into receptacles above the workbench

Pegboard Storage. An easily accessible pegboard tool rack completes this section of the project. I gland %-thick stock to the back of the peeboard before mounting it to the wall, as shown in Figure 3. They space the pegboard away from the wall to let hooks slip in place (margin photo).

Next, you'll work on the center section with the workbench.



hooks tend to move around and fall out hooks stay put for secure storage.



previous page is a great addition (inset photo above). You'll start by building the case to any shop. But the centerpiece with its partitions. Then you'll add of this project is the fold-up workthe sliding supports and top. And bench you see in the main photo. you'll need to install another cabi-To stand up to woodworking net on the right end to help support tasks, it needs to have a stout supthe bench cabinet. Later, you'll port system. This cabinet does the PET BETWEEN FRONT VIEW

The benchtop and storage on the

job with its two pullout supports build and install the fold-up work bench. But first, you need to build

the bench cabinet.

Building the Case. If you look a
Figure 4 below, you'll see the con
struction and joinery of the case for

this cabinet is similar to the open front cabinet on page 20. The only difference is the addition and location of the vertical dividers for the sliding supports (Figure 4a). After you assemble the case wif

glue and screws, just like you di before, you can build the two slide out bench supports. Sliding Supports. The benc

Sliding Supports. The bend supports are pretty simple, a shown in Figure 4. They're piece of MDF cut to fit in the slots create by the partitions in the cabinet. handy finger hole makes it casy to slide them in and out.

With the supports complete, yo can finish out the case by addin the cabinet face frame next. Face Frame. This face frame is little different than the one on the

storage cabinet you built earlie There are only three pieces to mai

ShopNotes No. 9

-

(Figure 5). I cut the two end pieces first. You'll need to cut these a little shorter than before to allow for a wide filler strip under the benchtop. Round over the outside edge of each before gluing them in place. Then it's just a matter of cutting the

bottom piece to fit between them. Benchtop. You make the benchtop from two pieces of MDF. But there's a filler strip that you'll need to add to the front (Figures 5 and rail where the folding bench section

is attached with a set of hinges. Front Rail. There's not much to the laminated MDF and filler strip. But MDF tends to soak up glue, so edges of the MDF, waited a few minutes, then applied more glue before clamping the rail in place.

Attaching Hinges, You'll be working on the flip-up workbench section later, but now's a good time to cut the mortises for the hinges and attach the hinges to the front rail. To see how to make the mortises and get a nice, tight fit, turn to Shop Short Cuts on page 14.

Anchoring the Cabinet, There is a potential for a lot of weight and pounding on the bench, so you want to make sure the cabinet is anchored tight all around. In Figure 6 below, you'll see how the cabinet fits between the storage cabinet you built earlier and another manufactured cabinet. (Now is the time to mount the end cabinet, if you

TOP(C) PRONT BAIL HIDES MO AND SUPPORTS EDa. SIDE VIEW (55 (88)

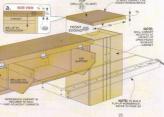
sure to leave room to fit the workbench cabinet snugly between the

bench cabinet to the two end cabinets with woodscrews. But for extra strength, I also screwed through the back of the cabinet and into the wall study

Small Top Section, Before workone final piece to complete. It's the

top for the cabinet at the end of the bench. There's nothing new here - just two pieces of MDF and hardwood edging on the front (Figure Go ahead and fasten the work-6a). A few screws are all you need to attach it to the cabinet.

With the bench support cabinet securely fastened in place, you're ready to work on the flip-up workbench. It's a handy addition that really makes this project stand out.



flip-up Workbench

With the bench support cabinet anchored firmly, you can get started on the flip-up bench. With a face vise, tail vise, and dog holes it's ideal for woodworking projects. (To build a plain workbench.) without these features, take a look at Shop Short Cuts on page 14.) There's a lot going on here, but if you take it one piece at a time, you won't have any problems

Three-Laver Lamination, Figure 7 gives you an idea of how the bench is put together. It consists of two main sections. There's a large MDF worksurface and a hardwood vise section along the front edge.

I started by gluing up and sizing the MDF section using three layers of MDF. Eventually, the whole bench will be wrapped in hardwood. But for now, I attached the back rail and inner rail.

NG THE VISES

As I mentioned before the front of the flip-up workbench is made of hardwood and features a face vise, a shop-built tail vise, and dog holes. These really transform this from a simple worksurface to a true woodworker's bench.

Tail Vise Assembly, Building the vise section begins with laminating three hardwood pieces (Figure 7). I bench top, as in Figure 7a the bench. One part of this glucup will hold the bench dog holes and

Mounting Block. After gluing the dog hole strip in place, you can the face vise. Another part of this begin to build the working parts of section will be cut off to make a the tail vise. The mounting block mounting block and traveler for the is the "anchor point" for the vise tail visc, as you can see in Figures 8 screw, so I worked on that next, as

Once it's been cut to length, you can mark and drill the mounting block for attaching the vise screw.





go ahead and glue the dog hole strip to the inner front rail, making sure the top face is flush with the



and 9 on the opposite page.

I drilled the dog holes after the

bench was assembled (see Shop





There's one more thing to do before gluing the block in place. And that's to make the end rail and drill it to accommodate the vise screw. To make sure the hole is located correctly, clamp the block in position on the bench and mark the hole location for the vise screw, as shown in Figure 8.

With the hole marked, drill the hole for the vise screw through the end rail and attach the end rail and mounting block to the benchtop. Traveler. The other part of the

tail vise to make is the traveler, as in Figure 9. Besides drilling a dog hole in the traveler, you'll also need to cut a groove on each side. The groovies ride over some guide strips as you operate the tail vise. I cut the guide strips to fit the grooves in the traveler

block. You're looking for a smooth, sliding fit that's not too loose.

Before screwing the guide strips in place, you need to make the front rail of the bench. For now simply clamp it in place to position the guide rails.

You can position the guides using the traveler block before fastening them with screws. You want the traveler block to be flush with the surface of the workbench, at each end of the guide strips, as in the Section View of Figure 9. Final Assembly. Now is the time to check the fit of the travler block. Check to use that it slides freely along the guide rails and sand the sides if the fit is too tight. Once you're happy with the fit, attach the vise screw (right margin). All that's left to do is glue the front rail and left end rail in place. Face Vise. A face vise is a great

addition to any workbench. The one I used simply boils to the bottem of the bench. The only trick is to make sure it's positioned so that there's no interference when the workbench is folded down. A spacer aligns the top of the isses floods with

of the bench.

Wedges. The
last thing to do
is attach support wedges to
the underside

of the filip-up workbench (bottom right margin). With the bench extended, slip the wedges between the extension and the slide-out supports. When the bench is level.



additional

Storage

No matter how much storage you have, it doesn't take long to fill up the space. Here are some storage options you can add to your workspace. They range from a tall storage cabinet to small, portable perboard shelves.

Tall Cabinet and Cap. To finish out the workshop, I added the tall cabinet and built a cap for it, as shown in Figure 11. A few screws secure the cap in place.

Valance and Pegboard. With the tall cabinet in place, you can add the final valance piece. You'll build it just like the one before, using the dimensions shown in Figure 11.

And you can complete the pegnanels, as shown below. These will fill in the space between the panel you built earlier and the tall cabinet at the end of the workbench

Permanent Shelving, At this point, all that's left to do is add



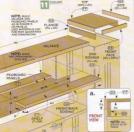
some additional shelving. I started how to put them together.

Once the edging is attached, use woodscrews to fasten the shelves at each end to the adjacent cabinets (For added strength and to help prevent sagging, it wouldn't hurt to put a few screws through the

back edging into the wall studs.) Pegboard Shelving. If you look at the inset photo on the right you'll see a handy storage option for the pegboard panels. The great thing is, they're adjustable. Figure 13 below shows you everything you need to know to

build these functional shelves See Shop Short Cuts on page 1for some tips on building these shelves and adding the L-hooks. The L-hooks are used to hang the shelves on the pegboard. Now, the fun part of organiz-

ing your shop begins. Once that's done, you can put the one-wall workshop to good use on all your future woodworking projects.







Short on wall space? You can build a smaller version of the onewall workshop. complete with a flip-

> Corner Wrap. If your shop has the space, you can add corner nieges to wran around and add more workspace.

Storage Only Front-loading "cubbies" add plenty of storage in a small area.

AA Face Frame Rail

Tops (2)

Tops (2)

Top (3)

Rails (3)

Front Edging

Left/Right End (2)

Vise Guide Strips (2)

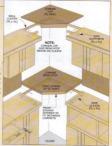
Vise Traveler Block (3)

Vise Mounting Block (3)

DD Front Edging

EE Filler Strip

Face Frames Stiles (2)



Materials & Hardware

STORAGE CABINET WORK AREA Top 16 x 71 - 1/4 MDF Left/Right End (2)

1515 x 71 - 1/4 MDF 13% x 16 - 1/4 MDF Dividers (2) 11/4x 1514-1/4 MDF 13/4 x 71 - 1/4 MDF Bottom Fillers (2) 14 x 186 - 7014 Face Frame Outer Stiles (2) 1/4 x 11/5 - 13/1/4

18½ x 72 - ½ MDF End Edging 1/4 x 1/5 - 19/4 12 x 72 - 1/4 MDF Panel Edging 11/4 x 72 - 1/4 MDF 18 x 72 - 1/4 MDF

Front Light Rail 21/4 x 72 - 1/4 MDF Pegboard 18 x 72 - 1/4 Pybd. WORKBENCH AREA

16 x 59 - 1/4 MDF 1516 x 59 - 16 MIDE Left/Right End (2) 13% x 16 - 1/4 MDF 13%x 59 - 1/4 MDF Top Supports (2)

11% x 1814 - 14 MDF

OO Support Wedges (2) ADDITIONAL STORAGE 221/2 x 24 - 3/4 MDF OO Sides [7] 21/5 x 24 - 1/4 MDF RR 21/5 x 231/4 - 1/4 MDF Flange (2) 3%x 24 - 16 MDF Front/Back Edging (4) End Edging (4) WW Bottom Panel 12 x 84 - 1/4 MDF XX Panel Blocking (2) Panel Edging 11/4 x 84 - 1/4 MDF 18 x 84 - 1/4 MDF AAA Front Light Rail 21/4 x 84 - 1/4 MDF

888 Pegboard CCC Top/Bottom Spacer (2) 1815 x 60 - 1/4 MDF DDD End Spacers (2) EEE Pegboard FFF Top/Bottom Spacer (2) 1814 x 24 - 14 MDF 71/4 x 541/2 - 1/4 MDF

GGG End Spacers (2) HHHI Shelves (2) III Back Panels (2) III Ends (4) . (76) #8 x 1)/2 Fb Woodscrews * (42) #8 x 155° Fb Woodscrews

1x195-84

. [2] #8 x T' Fh Woodscrews . [38] #6 x 3/4" Fh Woodscrews +16) #8 x 1/4" Panhead Screws . [3] 3" Utility Hinges

. (3) 48" Fluorescent Light Fixtures • [7] Under-cabinet Halogen Light Fixtures 7 x 59 - 16 MDF . (18) Wire Pulls

> MANUFACTURED CABINETS . (3) 16°D x 24°W x 1736°H Wall Cabinets . (4) 12"D x 24"W x 17%"H Wall Cabinets • [1] 24"D x 24"W x 72"H Storage Cabinet

18 x 24 - 1/4 Pabd.

18 x 60 - 1/4 Pebd.

HANDS-ON Technique

building cases with

Rabbet **Joinery**

This basic method offers quick, easy, and solid construction.

> When it comes to building a sturdy case for a shop project out of plywood or MDF, basic rabbet joinery is often the best choice for the job. It's a fast way to

assemble a cabinet without sacrificing strength. Why Rabbets? Rabbet joinery has some very basic structural benefits. First, the shoulder and the bottom of the rabbet automatically capture and align the mating pieces during assembly. The result is that the parts go together easier. Second, the "two-sided" joint cre-



Finally, you have an abundance of good gluing surface - and more is definitely better. Very Basic, Building a case with rabbet joiners

couldn't be much easier. The drawing at the lower left illustrates how the pieces all go together. To create a four-sided "box," all you need to do is cut

rabbets across the ends of two opposite case pieces most often the sides. The depth of the rabbet can vary from one quarter to three quarters of the thickness of the case piece. The width of the rabbet matches the thickness of the mating case piece so that the assembled joint forms a "flush" corner. A second series of rabbets along the back edges of the case pieces holds a back panel. This further stiffens the case and also allows you to easily attach it to a wall. Fasteners (screws work

the best) and glue hold all the pieces together. Considerations. Before getting to work, there are several things you'll want to think about. The first is how to size your case pieces. If the rabbets are cut on the case sides, the length of these pieces should match the height of the case (drawing at left). Then, to end up



Two Good Options. The left photo shows the sim plest assembly option, a shallow rabbet with screws installed through the case sides. A deeper rabbet allows you to "hide" the screws (right photo)



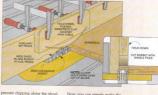
with a case that's the correct width. you need to take into account the depth of the rabbets when cutting the top and bottom to length

Assembly Options, This leads to the next point. The photos at the bottom of the opposite page show two rabbet/assembly options. The left photo illustrates the more basic assembly - a shallow rabbet with screws through the case sides pulling the pieces tightly together.

As you can see in the right photo. deeper rabbet allows you to hide the screws on the top and bottom of the case when desired. Here, installing the screws takes a little more care, but you'll end up with a "cleaner" looking case

Finally, there's one point to mention about the rabbets for the back panel. Their widths simply match the thickness of the back panel, while their depths match the rabbets in the case sides. This creates a "scamless" assembly

A Setup How-To. Once you've done all the "advance planning" and cut your pieces to size, you can set up to cut the joinery. The drawing above shows the table saw setup I rely on to handle this job. It starts with a stack dado blade installed in the table saw. The blade should be wider than the width of the rabbets so you can make the cuts with a single pass. A zero-clearance insert surrounding the blade will help



ders of the rabbets

As you see, the edge of the blade is buried in an auxiliary rip fence. This is how you establish the width of the rabbets and guide the cuts. Finally, a hold-down clamped to

denth of the cuts is consistent. Now, the Rabbets. With the table saw ready to go, the rabbets in the case sides come first. For accurate results, you'll need to carefully adjust the blade height and the position of the rip fence.

A separate test piece or one of your workpieces will help you with this, Start by adjusting the height of the dado blade until it cuts a rabbet of the correct depth. Then you can tweak the position of the rip fence to get the right width.

Now, you can simply make the cuts one after the other. Your goal is a consistent depth and width The hold-down will help keep the workpiece flat against the table for a full-depth cut. So your main focus is simply keeping the workpiece snug against the fence.

The rabbets for the back panel follow. You may have to adjust the rip fence to match the width of the rabbet to the thickness of the back, but otherwise the setup is the same. All four pieces need a rabbet along the back edge

That's it for the joinery Now all that stands between you and a sturdy case is a tight, square assembly. You'll find a few pointers

Rabbet Joinery: Assembly

Once the joinery is cut, the final task is to put all the pieces together into a solid case. The process is shown in the drawings at right. Glue alone would work, but I

like to reinforce the assembly with screws. So the first step is to dry assemble the case and drill pilot holes for the screws.

As you can see, clamps spanning all four sides are used to pull the joints tight. Cauls placed on the case top and bottom ensure that the clamps pull these pieces snug up to the rabbet shoulders. The cauls are placed back from the edges to allow access to drill

in the detail. A screw installed every 6" to 8" should do the job. Now you can take the clamps off add glue to the joints, reapply the finally, the case can be flipped over to allow the back to be glued and

screwed in place.





Keep you cleaning supplies close at hand with this heavy-duty storage

center



shop-built **Cleanup Center**

I've built a lot of storage cabinets for my tools and hardware, so I always know right where to find them. Unfortunately, that wasn't the case for my cleaning supplies. To solve

cleanup center you see above. What's nice is the center has a number of handy features. First of all, it hangs on the wall, freeing up valuable benchtop and drawer to fit a variety of cans, spray bottles,

and other cleaning supplies. And, third, there are a couple of customized compartments for a box of shop rags and a roll of paper towels.

But the main reason I made this cabinet is to hold a roll of kraft paper. I like to use kraft paper to spills. When the paper gets dirty, I simply replace it.

Since it's more economical to buy the kraft paper in large rolls,

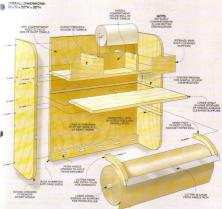
I added a hardwood roller and a

shop-made paper cutter to the cabinet. Now, it's a snap to tear off any

Since the idea for the cleanup center is to provide a central location for shop cleaning supplies, I didn't need an elaborate cabinet. So, what you see here is a simple, no-nonsense plywood case with strong and sturdy dado joinery And it all comes out of a single

sheet of plywood.

Exploded View Details



Materials & Hardware

CASE	
A Back (1)	31 x 35 - 1/4 Pfx.
B Sides (2)	1234 x 35 - 36 Ply.
C Peg Rail (1)	2½ x 30½ - ¼ Ply.
D Pegs (5)	1/2 x 41/4
E Shelves (2)	1116 x 31 - 16 Pty.
F Left Face (1)	416 x 1016 - 16 Pty.
G Right Face (1)	416 x 816 - 16 Phy.

H Side Dividers (2) 416 x 1014 - 16 Phy.

I Middle Divider (1) 416 x 12 - 16 Phy.

J Paper Towel Bar (1) K Cutter Arms (2) 1/5 x 8/5-1/5 Ply. L Roller Bar (1)

• (1) 1½" x 1½" - 3014" Angle Iron • (27) 48 x 1/6" Fb Woodscrews • (2) #8 x l" Fh Woodscrews • [1] Roll of 30"-wide Kraft Paper

ShopNotes

To download a free ShopNotes.com

building the Center

The cleanup center is an open case with heavy-duty sides and back that are tied together with shelves and dado joinery. The cabinet is sized to fit a 30"-wide roll of kraft paper (see Sources on page 51).

THE CASE

Building the case out of % ply wood gives the cabinet lots of strength. To make it sturdier, the back fits into rabbets cut in the back edges of the sides. Plus, the shelves are anchored in dadoes cut in the sides and the back (Figure 1). After you cut the dadoes for the

shelves, you'll need to make a third dado for the paper roller. But this

one is a little different. Kraft Paper Roller. Because of the weight of the roll of kraft paper. it's best to use a 1" wood dowel to support it and to act as a roller. To prevent the roller from pulling out when you're tearing off a sheet, the

MIDDLE DIVIDER

dowel rests in notches in the sides. So the first step is to locate the notches for the dowel (Figure 1c). I support for the roller.

used a Forstner bit and drilled the notches 1/2" deep to provide solid Roller Dado. The next step, as Figure 1c also shows, is to cut a I'-wide dado that aligns with the top of the notches. This allows you

to slide the roller into the cabinet and drop it into place. Since most dado blades will not cut that wide, you may have to make two passes, sneaking up on the final width. With the dadoes complete, you

can cut the rabbets in the sides for the back (Figure 1a). Then, you can tackle the

a

Storage Compartments. To fit and install these compartments easily, go ahead and assemble the sides, back, and top shelf. You don't want to put the lower shelf in just yet, because it'll interfere with can slide it into place later. Inside Out, Figure 2 shows how

the compartments fit together. The easiest way to put them together is to build from the inside out in a step-by-step process. As I said ear-















the first step is to size an entire sliver rags, then you

the compartments are m the top shelf, you The same of the right face the last compartment. was on give and screw the

The Next I turned my to the peg rail. To keep the pegs, they're set at a Figure 1c). I made the my drill press with a the pegs more strength, the rail as a guide, drill through and in the same angle. Glue will

THE PAPER CUTTER The last step is to make and add

me attached to pivoting The keeps it sitting firmly manufacture and for easier ripping. Rams. Each pivoting arm is made from two pieces of %" plysensed glased together, as Figure 3

OLLER BAR TER BAR BOUNE - N arms will prevent the cutter from cutter. After filing the ends smooth, twisting as you rip the paper off the roll. When the glue dries, you Wall Installation: With the

can use the pattern drawing above and your band saw to cut the arms

to their final size and shape. The next step is to install the arms (Figure 3a). But don't tighten them. down completely - they need to swing easily when you replace the

roll and as the roll gets smaller. Angle Iron. With the arms in place, you can cut the angle iron to length that serves as the paper

wall. Remember, the cabinet itself

Now, all that's left to do is chase shop and corral them into your new cleanup station.





angle iron provides ripping off sheets

 Easy Rip. The plyoting arms to rest against the paper roll. This makes it easy to toar off just the



With a little planning and work, you can build great-looking, low-cost projects.

It would be goot to have a slope.

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"two-by" lumber. You're probably

already familiar with some of the downsides of dimensional lumber. It comes from a variety of species of pine, fit, or spruce and is often in petty rough condition. In fact, warped, checked, twisted, and very wet lumber is common. So, it takes a bit more work to get the most out of this material. But with a little extra planning and patience

most out of this material. But with a little extra planning and patience you can get great results. Selection. Building a successful

project with "ordinary lumber begins by choosing the right boards. When I shop for dimensional lumber, the first thing I look at is the moisture content. And most of the time I don't need a moisture meter to see how

wet some of this lumber can be. These boards are often wet to the touch. That doesn't mean you should avoid these boards. All you need to do when you get them back to your shop is stack them with



a place with good air circulation, as shown in the photo above, and allow them to dry. Depending on the conditions, they'll be dry enough in to work in a few weeks.

ShopNotes No. 92

back. Even if you lamber, chances are to pick through it mustly to find the best by thing I try to avoid and stock. You can usuamed slightly bound backs, but correcting the soo much effort. If most likely have a to choose from, leave

suck at the store.

The Pve sorted out the store present, I start to look at an fire most shop projects, I have go concern, but I from the lumber for cabinet are any other applications. The store of the straight or a visual appeal, I is me to find the straight or a st

opposite face and trim the opposite opp

Taming, Jointing, and Planing.

The next step is getting the boards

are see squared-up, and planed
thickness. Overall, the process

similar to working with
sugment hardwood stock.

ment like to begin by inspecting to ment board (again) for warping, in towing, and checking. At this

point, you can lay them on the bench and start roughing out the parts you need in chalk directly on the boards, as in the lower left photo on the opposite page. This is a good time to identify the

Inis is a good finite to identify the knots or other defects you'll have to work around. I reserve the best boards for the longer pieces of my project. This way, you can compensate for bowed or warged boards by cutting them into slorier pieces and eliminating any problems.

Once the parts are just to reagh, size, you can move on to the justice to square up one edge and one far. The difference here is that yet also need to get itself of the rounded also meet to get itself of the rounded lumber. Then, you can plane the opposite edge at the table save. As you can see in the photos art fight, you'll lose as little more thickness and width in this process than you would him this process than you would him.

take that into account in your plan. Joinnery, Now that you have your boards flat and square, it's time to tout out the parts for your project and work on the joinery. The thing, to remember here is that you don't ware to get too fancy with "twoby" stock. Schrood won't hold an edge the way oak or maple will. But that doesn't mean you can't make a mortise and brono joint or rout a simple edge profile.

Jointed and Planed. Your stock will end up a little narrower and thinner after flattening and squaring.

Sanding, You're probably already familiar with the tendency of "two-by" lumber to spilinter at the cutline. So after I cut out the parts, I plan on doing a fair amount of sanding, But sanding softwood goes pretty fast. You can move through the griss and get a smooth surface quickly using either a random-orbit sander or a sanding block.

The "Two-by" Solution. By now you can see that dimensional lumber can be used as a great, low-cost material for your shop projects. It's dutable, easy to work with, and if you're willing to take a little extra time and use your creative talents, ican be as attractive as hardwood. And since it's available just about anywhere, there's no good reason to put off building any of those shop projects any longer. (If the project is the project and the project is the project and the project is the project and project is the project in the project in the project is the project in the project is the project in the project in the project in the project is the project in the project in

Create Your Own: Straight-Grain Panels

of the best ways to make "heoeby" stock more tive is to make a series of cuts at the table save using the straighter gain, as in the photo at right, can start by marking the boards in a way that will life the straight-grained face. Then, it is just a matter apping the stock on the lable saw, rotating it to make the best edge, and gluing it back together with straight grain surface science;

This is a great way to make table tops that are both more stable and better-looking. And using this method allows you to determine the thickness of the top just by adjusting the width of the cuts. So you can even make a top thick enough for a workbench. Quartersawn Look, By cutting the boards below to reveal straight-grained edges, you can reassemble them into attractive, stable panels.



dust-free Blade Cover

Stop dust in its tracks. All it takes is a weekend and an ordinary shop vacuum crevice tool.

The blade cover and splitter assembly that comes with most table saws is a bassle. So I'll admit that it's not on my saw as often as it should be. Besides being unsafe, this setup also throws a lot of dust back in my face as I'm cutting.

I've been thinking about a solution for this problem for some time. The answer came when Robert Knox of Apopka, FL sent me some photos of a blade cover he made for his saw. So I borrowed some of his ideas to make the blade cover you see in the photo about. Dust Collection. There are two things that set this blade cover apart. First, it has a simple, builtin dust collection system. This makes for dust-free cutting and goes a long way toward keeping your shop cleaner.

Over-Arm Design. The other interesting feature of this cover is that it's suspended over the blade (not attached behind it). It's connected to the right side of the saw table. This makes it easier to move the cover out of the way to change blades or for outline tall is thock.



A Rigid Support. A beefy hardwood mast and steel conduit anchor the dust cover to the saw table.

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MINISTRE HOOD

mer crusists of two main miles the hood and the author assembly. The hood assigned to cover the blade to the too be picked up by a

with the design and installation of the southing system depends on the southing system of the local design of the

Components. The hood is of just a few parts. A pair amount sides surround to the And a couple of pieces and act as spacers, as you are in Figure 1.

The back spacer is shaped to much the curve of the blade and themes dust and chips toward the back of the hood. At the back the assembly, you can see this much is raised above the table to

The front spacer directs dust

where it can be removed by a dust

collector or shop vacuum. You can use the layout guide below to shape these pieces.

below to shape these pieces.

I sized the thickness of these pieces based on the thickness of the crevice tool. Just be aware that most crevice tools taper slightly. You're aiming for a snug fit between the sides.

BACK SPACER

between the sides.

Drilling Holes. After spraying on a few coats of paint, you're ready for some assembly. The sides are simply screwed to the front and back spacers.

In addition to drilling holes for the screens, you can see in the box below that there are a few other holes to drill as well. Those will pitter, you can get started on the be used later to attach the hood.

to the mounting assembly. There's also a hole for a pin that will be used to retract the hood when changing blades or cutting thick stock (photo at right). Aluminum Ramp. The last

Aluminum Ramp. The last thing to take care of on the hood is to add an aluminum ramp to the front. This ramp serves a couple of purposes. First, it provides a smooth, durable surface to allow the workpiece to slide under the hood. And second, it acts as a convenient handle to lift the hood out

on the hood is a ramp to the ramp a couple it provides a aluminum provides de under the a smooth dumble

aluminum provides
a smooth, durable
surface to guide
the hood over a
workpiece.



to can use the drawing at right are couple of steps in making the bood. First, you can lay out the prolie of the front and buck hardwood spacers on a single, large blank.

After cutting the back spacer to shape, you'll need to custom if the terms spacer to your cravice tool. In do this, tape the pieces to one of the sides. Then set the cravice tool on the front edge of the back piece and trace its profile on the front at the profile into the front at the band save, but a jig save would also work just first.



Mounting Assembly

NOTE: START WITH
190" x 3" - 10" SLANK
190"-DIA HOLE
10" DEEP (TOP SLDE
10" DEAP (AUTO10" DEEP (TOP SLDE
10" DEEP (TOP SLDE
1

The hood you just completed is suspended above the saw blade by the mounting assembly. However, the hood also needs to be able to ride over the top of a workpiece and then drop back down smoothly. Flexible Connection. For this

Heable Connection. For this to happen, I attached the hood to an arm made from conduit with a "suspension" system. You can see how this is accomplished in the photo at right. A set of four aluminum bars connect the hood to a pair of mounting blocks that clamp

onto the conduit arm.

Mounting Blocks. The hard-wood mounting blocks need to grip the conduit arm securely. To make this work, start by cutting an oversize blank to the size shown in the margin drawing at left. Then you'll need to fell a few to fell of the conduit arm.

ou'll need to drill a few holes.

The first hole is sized to allow a conduit to pass through easily three was 15° dis 1 The most hole.

Supermise System.
Alement loss still 1
consistent loss still 2
consistent loss still 2
consistent loss still 2
consistent loss still 2
consistent loss still a every loss still

bolt, washer, and knob to hold the block in place. A third hole is a storage spot for a pin that can be used to hold the hood above the saw table, as in the photos below and Figure 2. A final set of holes is used to attach the aluminum bars.

The next step is to assemble the block on the conduit. For this, I cut the block in two. A pair of screws-runs through the front of the two blocks to hold them together with a ½ gap. Then when the knob is tightened, the blocks flex and squeeze the conduit (End View).

Aluminum Bars. When you've

the aluminum bars to attach the hood. You'll notice that two of the bolts are longer than the others. The reason is that they provide danchoring points for a spring that dwill provide a little assist to help the hood lift over a workpiece.







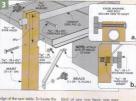
MILLINTING THE ARM

to prove you're ready to between the amount on the saw. Here's see to take a look at the analysis in made.

has a solid, cast iron
and extension table, you
the whop shown in Figure
short Cuts on page 15,
thus an alternate mounting
to sees with front and
annualistic rip fence rails.

to the Works. In a nutshell, the the arm is attached, unsular arm is clamped in a sectional must with a carriage at washer, and knob. The mast summed to fit over the edge of the section of the arm about 5" on the saw table. It's designed to posture the saw table.

attent allows you to quickly slide
and cover out of the way. This
are in handy for cutting tall
access—like raised panels.
But allows of the raised panels
and you're ready to secure
the saw. And it's fastened in
places for rigidity. I used carboil to attach the mast to the



edge of the saw table. To locate the front-to-back position of the mast, set it so that the hood is centered over the saw blade. (You may have

to drill a hole in the saw table.)

Bracket. The second place the mast is sourced to the saw is at the bottom. Here, I made a bracket from a length of aluminum barsock, as you can see in Figure 3. This braces the mast to keep the arm from sigging (Figure 3b). Once again, depending on what

need to customize the connection of the bracket to the saw. That wraps up the construction

of the blade cover. And now you can attach a vacuum hose to the coverior tool in the hood and start using it. But there are a couple of accessories in the box below that may make using the blade cover easier. And I'm sure you'll find that cutting with your table saw will be virtually dust-free. d.

Blade Cover Accessories



Here are a couple of ways to extend the versatility of the blade over

Push Block. The 12'long push block that rides the rip fence in the photo allows you to guide a workpiece past the blade

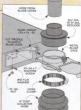
tor making narrow parts.

The push block is sized to fit easily over the rip fence without any play.

And a tall handle makes

it easy to control.

Blast Gate. You can also connect the blade cover to a dust collector through a blast gate attached to the edge of your saw table. The drawing at right gives





Get the shop of your dreams without the hassle of building from scratch by using modular, manufactured cabinets.

of in my shop is time. I've always got a long list of projects waiting to things organized and build storage cabinets for the shop, I decided to save some time and order a few cabinets from a manufacturer. It's a tough choice for a woodworker to make, but when you

The one thing I never have enough

look at the cost of building shop cabinets (including labor in the together in no time.

equation), you'll see there are good reasons to consider this option. For example, the cabinets for the one-wall workshop on page 16 cost about \$750 (shipping included) To build the cabinets from scratch would have added a couple weeks of shop time to the project. Having the parts cut and pre-drilled for hardware allowed me to put them

you'll see right away is the design assistance available through many of the internet or catalog cabinet suppliers. This service can save hours of custom design and planning time. All you need to do is identify the space you have available and the requirements you have for the cabinets and a designer will put together a package for you. The checklist on the opposite

page is a starting point to help you figure out what questions to ask

Customize Your Shop. Saving time means you can spice up the cabinets with a few customized details you build yourself. In the one-wall workshop. I decided to add a flip-up workbench with a vise and pegboard panels between the cabinets. I also added the open "cubbies" above the lower cabinets to hold some of my frequently

What's In The Box

A successful

Hardware. ▶



me took and other items I

above, you can see I

among wall cabinets. This

among is up off the floor

water in the shop, It also

INSTALLATION

and the control of th

aged, now is the time to notify the supplier and order a replacement. Read the Instructions. Once you're sure you have everything, the next step is to familiarize yourself with the assembly instructions. Each manufacturer has different procedures for assemblying and hanging the cabinets. So it's best to

thoroughly understand the whole process before you begin.
You may also want to take the time to paint the pieces before you begin the installation. The box below has some helpful tips for rouinting particleboard cabinets.

Cabinet Checklist

REQUIREMENTS • Do you have special weight requirements?

- Do you need melamine surfaces?

 DESIGN ASSISTANCE
- Does the manufacturer provide custom-built cabinets or modular units to fit your space?
 Censtruction quality
 What are the cabinets made of? Plywood, sheet.
- What are the cabinets made of? Plywood, sheet metal, particleboard, MDF?
 What kind of hardware is used? Will you need to
- upgrade handles, latches, hinges?
 SHIPPING & DELIVERY
- Will the products be delivered to your door or to a local vendor or warehouse?
- What's the manufacturer's policy on replacing components damaged in shipping?

 INSTALLATION
- What method is used for hanging cabinets?
 Does the company offer installation?

 CUSTOM MODIFICATIONS
- How easily can you add your own features or upgrades to the cabinets?

The Results. Even after assembling and painting the cabinets, I saved a lot of time over building them from scratch. And that meant I had the time I needed to get a few of my other projects done.

Final Touch: Painting

manufactured cabinets I used were made of particleboard.

The plenty strong, but they can be dellenge to paint.

The the End Grain. The first step

in the finishing process is filling and smoothing the edges. For this, used drywall joint compound. You can start by applying the ampound with a plastic putty

knife, as shown in the left photo below. Try to push the compound into the edges as much as possible and then even it out with the knife.

and one coges as much as possessor and then even it out with the knife. Primer Coat. The next step is to put on a coat of primer. You can use either a brush or roller for both priming and painting. I like to use gray primer because one coatcovers the brown particleboard very well. It also makes it a lot easier to see any soots vocy'e missed.

Apply the Final Color. When a you select the paint for the finish coat, one thing to keep in mind is the type of paint you'll need.

Remember that there will be a lot of a sawdust flying and you'll want to be able to clean the cobinets easily.

For that reason, I recommend a a good-quality, interior paint. It's leasy to wipe clean with a damp cloth and rugged enough to stand up well in the shop.







SETTING UP Shop

must-have

Table Saw Accessories

These simple shop-made jigs

and accessories make work at the table saw safer and easier.

I the most woodworkers, I use power tools every day white working on projects, that the power tool that gets the most use in my shap is definishly the tilts.



One of the things that makes my table saw so useful is the handy jigs and accessories. I've built over the years. These accessories allow me to do my work at the table saw feather, with greater accurately, and less effort. But more importantly, they make the work a lot safer.

1 Push Block

SAN TOOM OF TAKEN THE SAN THE

7/1 - 1/1 -

fool you. The right push block not only makes the work safer, it also improves the quility of your work.

One thing I like about the push block shown in the photo above is the "high-mounted" comfortable position of the handle. It keeps your

At first glance, the push block in the

photo above appears to be rather

simple. But don't let its appearance



fingers well above and away from the spinning saw blade.

the spinning saw visite.

Best of all, you don't sacrifice
any control. The forward sweep of
the handle lets you place constant
downward pressure on the workpiece for a steady, controlled feed
into the saw blade.

As you might expect, the body and cleat are going for get cheeved up after you pass them over the blade a number of times. So this push block is designed with replaceable parts. All you need to do is fill pit the body or cleat over when you need a new dege or simply replace them with new ones. Then you can quickly attach the bandle with a screw attach the bandle with a screw and

get back to work again.

ShopNotes No. 92

Auxiliary Miter Fence

the milet gauge with most table saves we enough surface to be an workpiece support. It is a challenge to make an darger of accuracy. It is proposed to be a support of accuracy, the problem is easy, last likely force to your milet if it want a force that wayport right up to a five cut, you'll need to be much adjustable.

me that's adjustable.

Successes, I used a rabbeted
successes, I used a rabbeted
successes, I used a rabbeted
successes, I used to fee to the cutsus the fence is positioned,
authorized in place by simply
successes, I used the fence, cut a rabbet

I thild the fence, cut a rabbet

FENCE TEXT TO THE PROPERTY OF THE PROPERTY OF

NOTE: ALL PIECES CUT

a matching rabbet along the bottom edge of the upper cleat, as shown in the drawing above. Then install threaded inserts in the lower cleat so you can attach the fence to your

so you can attach the tence to your miter gauge (detail 'a').

The fence face can be quickly replaced when it gets chewed up. Simply remove the old one and replace it with another one.



LOWER CLEAT

3 Stop Block

atting a number of pieces all to the same length at the table same be a challenge. No matter how accountely you line up the cut, each name ends up a little different. But stilling a stop block to your auxilation as shown in the photo at makes this task easy. As you can see in the drawings

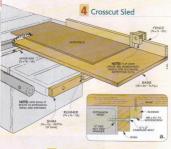
below the flip stop is fastened to Lought block with a bolt and man mat. The block is then bolted miscret of hardboard. This forms a clamp that fits over the auxiliary fence and can be locked in position by tightening a plastic knob. To help prevent the block from slipping on the fence, I added sandpaper along the bottom inside surface of the block and

Using the stop is easy. Just rotate the flip stop out of the way and square up one end of the workpiece. Then, you can quickly flip the stop back down to cut each piece to the

same exact final length.







The miter gauge of your table saw works well for crosscutting most workpieces. But when you need to crosscut a large panel, you'll want to use a crosscut sled, like the one shown in the drawing at left.

The base of the sled is made from

The base of the sled is made from "plywood. It provides a large surface to carry the workpiece through the blade. A 3"-tall hardwood fence along the backedge holds the workpiece square to the blade during the cut. The fence is sized so you can use the same stop block built for the auxiliary miter fence on page 43. To always view, you straight and

To always give you straight and accurate cuts, the sled is guided along the table by two hardels by two hardels by two hardels by two hardels with the same of the table smoothly in the mitter gauge slot in the table. And the other runner rides against the extension wing of your table saw or a shint, as shown in detail "at at left."

NOTE: ALL PA

5 Auxiliary Rip Fence

A rip fence is essential for cutting workpieces to width accurately and safely. But to get more versatility from your table saw, you'll want to add an auxiliary tip fence.

The fence you see in the photo at right is sized to slip easily over the standard rip fence on your table saw. This way, it can be easily removed. But it's so handy, you might not be taking it off very often.

The fence has a short face on one side and a tall face on the other. This allows it to do double duty. When you want to use your dado blade to cut a rabbet, you can bury the blade in the short face, like you see in detail (2 at right).

Then when you need extra support for making a cut involving, larger panels or standing taller stock on end, all you need to do is flip the fence around. The tall fence provides enough solid support for you to work safely.







Outfeed Roller



ing boards or panels on the table saw can be an about you're working alone. You usually need the short of the panels of the panels of the panels. As used support can solve this problem. And you want to spend a lot to meet your needs. outlied offset shown in the photo above is

ample and inexpensive to build. And as you can see in



the drawing above, all it takes is some scrap lumber, a short length of PVC pipe, a dowel, and a few screws.

The roller is designed to be clamped firmly to a solid support, like the sawhorse shown in the photo above. This way, once it's set up, the outfeed roller stays securely in place, and you won't need to worry about it of



ligs that make it ensier to cut tenores on the table saw as usually fairly expensive. But you can build a simple is that works great. All it stokes is a small investment in materials and little bit of your time.

If you take a look at the drawing at right, you'll see the weath with its its to build. It's stated to siles over the same thought that is the same that the same that

and slide smoothly along the rip fence of your table size. So all you need to do to line up a cut is simply adjust the position of the rip fence.



To build the jig, begin with two face pieces. Cut a dado in one face for the vertical stop that holds the workpiece securely in place. Then cut dadoes and add the spaces to allow the jig to fit over your rip fence. You can use the jig to quickly and easily cut the cheeks of a tence. But that's not all it will do. You'll fault also worked praif for creating emooth cheeks for a

half-lap joint or cutting a bridle joint.



the easy way to Snug-Fitting Tenons

Here's a straightforward technique that yields top-notch results.

Of all the specialized table saw techniques I use, the one I probably turn to most often is cutting clean, accurate tenons with a dado blade. I've found that no other method gives me the same high-quality

w results in a comparable time. Best by of all, the setup is easy and the technique can be mastered quickly.

How it Works. Going over the basic technique is a good lead-in to setting up the table saw. Essentially, a wide, stack dado blade does the hand work of removing the waste from the tenon cheeks and shoulders. Carefully adjusting the height of the blade is what gives you a

snug fit to the mortise.

The workpiece is fed across the dado blade using an auxiliary fence attached to the mitter gauge. This gives you firm, easy control and results in clear, square shoulders. Finally, the rip sence is used as an end stop to accurately gauge the

length of the tenors.

Setting Up Right. Setting up the table saw to cut the tenors only takes a few minutes. A look at the photo above and the drawing at left will help you with the basics.

I'll inst hisblishes a few of the more



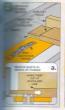
the A The Result. For tenons with saste smooth cheeks, crisp shoulders, and a gap-free fit, a dado blade ght on the table saw is the ticket.

First, you want to use the widest dado blade possible. It will take fewer passes to cut the cheeks and you'll get smoother results. And I always install a zero-clearance insert over the blade to help control cheems at the about less.

The auxiliary fence on the miter gauge gives you better control of the workpiece and also backs up the cuts. So you want to make sure it's tall enough to give you a good grip and it's positioned to extend past the blade, as shown at left.

One of your goals is clean, square shoulders. To achieve this, first, the









me in fence should be perfectly smalled to the blade. And second, make some the miter gauge is square to tip fence and the blade.

MAKING THE CUTS

som you're set up, cutting the mass good quickly. The process is asset in the drawings above. Best the Checks. The tenno make are cut first (Figure 2). I may be up the set of the process of the process of the process of the process of the process. This can be under the fact bright and establish the canon of the tennos. (This can be under the process of the process

You'll also need to adjust the position of the rip fence to gauge the length of the tenon. But this can be done when cutting the first tenon check. Set the fence to cut just tenon check.

tenon cheek. Set the fence to cut just shy of the shoulder line and make a pass. Then tweak the fence position until the cut falls right on your line. Now, work back toward the end of the tenon with multiple passes to remove the remaining waste on the cheek (Figure 2a).

Side To Side. The dado blade often leaves small ridges on the tenoncheek. A quick way to remove these is to slide the workpiece side-to-side across the "high point" of the blade (Figures 3 and 3a). Move the workpiece forward slightly

between each pass to knock down the ridges. The opposite cheek can be cut exactly the same.

be cut exactly the same.

Completing the Tenon. Once all
the tenon cheeks have been cut and
smoothed, you complete the ten-

ons by cutting the top and bottom shoulders. A look at Figure 4 above will give you the idea. First, you may have to readjust the blade height to properly size the width of the tenon. You do this

the blade height to properly size the width of the tencer. You do this the same as for the cheeks, testing the fit directly to the mortise. But don't move the rip fence. Here the order is a little different.

Here the order is a little different. To remove the weak, i start with a cut at the end of the kenon and work back toward the shoulder. This has two benefits. You'll be much less likely to chip the corners of the kenon save that's self-supported on the "shoulder side. Second, you can ensure that all four shoulders will be perfectly aligned by making the shoulder cuts with a final floor shoulders will be perfectly aligned by making the shoulder cuts with a final light pass. Then if necessary, smooth the face with a "sideways" passor two.

After cutting the top and bottom shoulders, the tenon is ready to moet its mortise. It's a good feeling when the tenon slides home snugly. And you can be sure it's a joint that will last a lifetime.

Getting a Grip



Finger Tip Control. If you have trouble maintaining a good grip on the workplece, a set of nubby, rubber finger tips is the answer. You can buy them in several sizes at an office supply store.



I don't think a day goes by in my shop that the miter saw doesn't get used. It's great for cutting pieces to length, making angled cuts, or trimming an extra "hair" off

a workpiece to get a good fit. In short, it's a shop workhorse. But the saw by itself is more suited to a construction site than a

suited to a construction site than a workshop. Thankfully, the accessories pictured above can make your miter saw more accurate, safer, and more enjoyable to use.

ROUSSEAU DOWNDRAFTER

When it comes to controlling the dust clouds produced at the miter saw, I've tried just about everything. Starting with connecting a vacuum hose to the saw's dust port, and moving on to building a box to try and corral the dust. The dust seemed to win every time.

So when I saw the Doumdrafter, I had to give it a try. The Doumdrafter is a dust collec-

tion hood made of impact-resistant moided plastic with a 4" dust collection port. Using the hood, your dust collector can handle even the worst dust clouds (like cutting MDF) without myssing much. Working the Angles. The prob-

lem with trying to collect dust at the miter saw is the fact that the dust exhaust changes position as you move the blade to make angled costs. That means a fixed collection point won't do the job—especially when you angle the blade to cut at 45° So a smart system would allow you to move the collection point with the blade. And that's exactly what the Deumenter of the same state of the s

Two Options. The Downdrafter of hood is available in two models.



A Roll It to the Source. Sturdy construction and portability add to the Downdrafter's strengths.

season in the photo at and wheels. This means and swivel the mount the angle of the saw at arrays of being mobile. and use it near your lather on the lather

model attaches to the are on rails allowing the manufacture. This option is great mun miles saw stays in a fixed make in your shop and you selmove it to a job site. Besults. I found it to be very ellection with either a standard or a sliding-compound makes and the steel stand makes adjustments easy while still manuface a solid platform. You'll want to add a 45° PVC to your saw's dust port, as time mainted into the bood. (The

multication in the instruction mer included in the package.) Militia street price of \$150, it's most control. But compared to covstrong your shop in a layer of dust and inhaling it as well, it just might mane of the most effective.

number recommends this

THE KREG PRECISION MEASUREMENT SYSTEM A popular use for the miter saw

is making accurate and repetitive length cuts. Kny has made the job a lot easier and more accurate with The kit consists of extruded alu-

a 1/4"-thick, shop-built fence. The track comes in four 2 lengths, so you can customize a setup for your needs. The kit also includes both left and right-reading measuring

tapes that fit into the T-track Stop Blocks. But the highlights of the system are the two stop blocks. Both slide and lock into position easily on the T-track and feature acrylic etched cursors for setting

up precise cuts using the fence. The first block is square and fixes in position like a traditional stop block. The second is a "flip-stop." Once positioned, it can be flipped back over the fence and out of the way of the worksurface. Its curved shape also allows you to slide a board under it (as shown in the top photo at right). The real advantage here comes when you're cutting different-sized pieces from a board. (For example, if you need to cut multiple 60" and 30" pieces from a set of 8' boards.) You just slide the



cursor (inset above) for making accurate cuts.

board against the flip stop, make stop to the fixed block and make the next cut (photo above)

The price of the Precision Massurement System is also around \$150. But the accuracy and time savines can quickly justify the cost

Bottom Line. The Doomdrafter and Precision Measurement System are welcome additions to the shop. And if you cut a lot of crown molding, the box below shows another handy upgrade. You can find out where to buy these accessories in Sources on page 51.

Accurate Cuts in Crown Molding

Brachdog Tools takes the hassle of cutting crown molding their Crown-Cut jig. The nice ming about the Crown-Cut is its emplicity. All you need to do is the fence to hold the moldme upside down and at the merect angle - no need m tilt the blade. The disections for inside/outside corners and left/right are printed right on it to position the molding in the iie









saw blade Hook Angle Wills share to saw Mades. To a satisfied that the

all seem to have varying hook angles. Is one hook angle better than another?

Dino Buscetti

Noomfield, New Jersey

The "hook" of a blade is simply the angle at which the teeth lean forward (or back) when looking at the blade from the side.

Blades are available in a range of hook angles. If the teeth lean forward (so that they face into the cut) the blade is said to have a positive hook angle. If the teeth

with low or negative hook angle strike wood squarely.

BLAGE CENTER

between 5° and 5°). The reason has to do with central.

The higher the hook angle, the more aggressive the cut. This is because the teeth are bitting linto the wood at a steeper angle (drawing art left). On a mitter or radial arm saw, a high hook angle can cause the blade to "grab" the workpeer and lurch forward uncontrollably). That's why a blade with a low or

lean backward, the blade has a

negative hook angle. Most saw

blades for woodworking have

a hook angle ranging from -5° to 20°. Determining which hook

angle is best really depends upon

the type of saw you're using and

Miter Saw. If you're buying

a blade for either a sliding com-

pound miter saw or a radial arm

saw, you'll want to choose a blade

with a low or negative hook angle

the work you're doing.

negative hook angle is a better choice with this type of saw. There are a couple of downesides to using a blade with a low or negative hook angle. The lower the hook angle, the more power the blade requires to cut through the material. So if your saw is underpowered to begin with, switching to a negative hook blade might make it megative hook blade might make it The other thing to keep in mind is that you'll probably have to slow down your feed rate when using a blade with a low or negative hook angle. If you don't, you run the risk of stalling the motor.

of stalling the motor.

Table Sass, If you're leaving, as blade for the table saw, you'll want to select one with a high hook angle (anywhere from 10° to 20°).

The higher hook angle will allow you to feed the wood into the blade faster. And since the blade on a table saw mennis in a fixed position, there isn't really any danger of the blade self-feeding into the wordspice. You simply control the cuttine sweed by adultsine the feed.

Material. In addition to the type of saw you're using, you'll also want to consider the material you're cutting. Generally speaking, the harder the material, the lower the hook angle you want to use.

rate of the workpiece

For cutting softwoods on a table saw, a blade with a 20° hook is a good choice. With hardwoods, you'll want to use a blade with a 10° or 15° hook. And if you're cutting plastic laminates or non-ferrous metals, your best bet is a blade with a negative hook angle, whether you're using a table saw or a miter saw.

► Teeth with positive hook angle "bite into wood.

Sources

HANG IT ON A WALL

Mounting a cabinet to a wall is a challenge if you don't have a wall stud in the right place. The solution is a wall anchor. like the ones fealocating them at a local hardwarestore or home center, check with

PLYWOOD EDGING BITS

Covering up the edges of plywood can be a hassle. But with the Burcess Edge bits shown on page 12. it's quick and easy to cut mating profiles that match perfectly. These sets are available for both 15"-thick and 1/4"-thick material. The adjustable bullnose profile bit is available for only the %" material

All the bits are available from the Burgess Edge. And Lee Valley carries the bits for %" material (1694.01 16194 (13). Rockler has the hits for both 1/2" (26018) and 3/4" (25854) stock. Check out the margin at right for ordering information.

ONE-WALL WORKSHOP The cabinets for the one-wall work-

shop on page 16 were obtained from Garage Storage Cabinets, Contact information is in the marrin. To customize the project, you'll also need additional items. The face vise (68888) was ordered from Rockler.

Keep your issues organized!

And Wootserler's Hantson carries the wire pulls (A7631306D) we swapped out on the cabinet doors. If you plan to add lighting, we

used 48" GE Premium Direct Wire Fluorescents and 13" GE Advanced Linkable Halogen Lights from a local home center.

For the tail vise, you'll need a 9" press screw (13F17.01) and Veritas Bench Pups (05G04.04) from Lee Valley. And if you decide to build the workbench without the tail vise, the Veritas Wonder Pup (05G10.02), along with one bench pup (05G04.03), will make any clamping task simple.

Finally, to paint the cabinets, we used Lady Bur Red (1322) in Feeshell AguaVelpet and Antique Parchment (959) in Satist Imperco. Both are available from a Benignin Moore dealer. To prepare the surface of the cabinets, we used a fast-drying, oilbased primer with a gray tint.

CLEANUP CENTER All the hardware for the cleanup

center on page 30 is pretty common. The only challenge may be finding the 30# kraft paper roll used to protect your benchtops and worksurfaces.

Centralpack.com offers the 30'wide roll as item number 35961. But similar rolls are available from

a number of sources, including Office Depot and McMaster-Carr listed in the margin at right

TABLE SAW BLADE COVER

the dust collection from your table saw. A hardware store will carry most of what you need. For the knobs (23812), contact Rockler, And if you need the crevice tool (Ridvid VT2502), check with Home Depot.

MITER SAW UPGRADES Whether you're cutting stock to rough length or trimming off a hair

for a perfect fit, a miter saw can't be beat. For even more versatility and accuracy, you can add upgrades like the ones on page 48. The Doumlrafter is available at right. The Amazon item number is B0006FRAVQ. And if you order through Facile America ask for item

number 485-3870

The Kreg Precision Measurement System is available from a number of mail-order sources, including Rockler (29415). Woodcraft (146487), and the Woodsmith Store. And finally, the Crown-Cut lie from Bouch Doe Tools is available from both Amazon (B0006FKGGC) and the Woodswith Story &

Woodsmith Store

& Himder Pun

Rockler rockler.com

> Lee Valley leevalley.com

The Burgess Edge burgessedge.com 630-600-3600

Amazon.com

Eagle America 800-872-2511 engleumerica.com

Woodcraft Inc. 800-225-1153 woodcraft.com

wwhardware.com

P&M Consolidator Supply Co. 888-654-5354 centralpack.com Office Depot officedepot.com

800-786-8902 Gerage Storage Cableset

ShopNotes Binders

and easy-to-read perforated number tags. Snap rings with a quick-open lever make it easy to insert and remove issues. Visit wown Shoothates com to order

these binders, or call 1-800-444-7527 ShopNotes Binder 701950-SN92 (Hokos 6 Inquest......\$12.95

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