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August 2002

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Crafting Magazine!

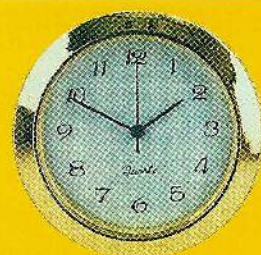
**24
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Rhino
Keepsake Box
Carve a Dachshund
Indian Chief Clock
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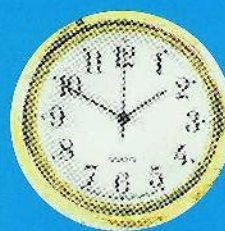
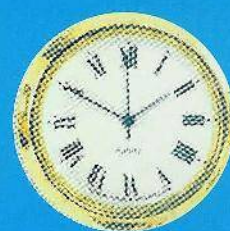
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Includes designs for: retired guy, cowboy dude, bell hop, doctor, computer girl, detective, tired salesman, mad scientist, man walking dog, retired military man and many more. Total of 19 designs. Order #SB-1291-P only \$6.95.



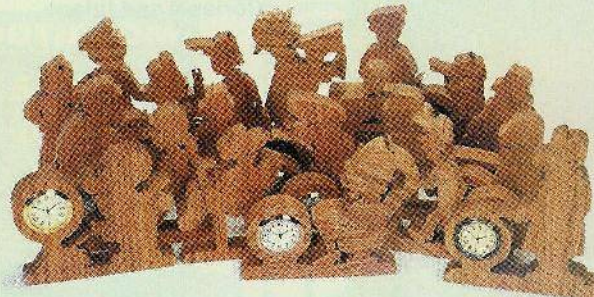
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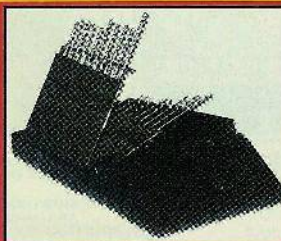
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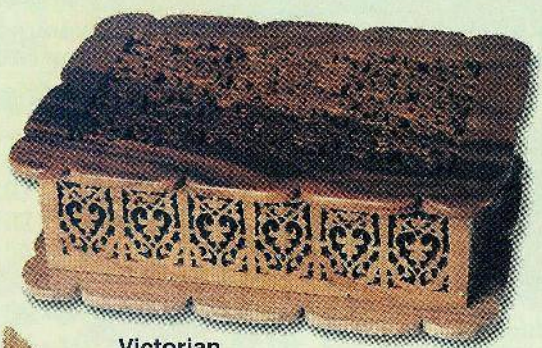
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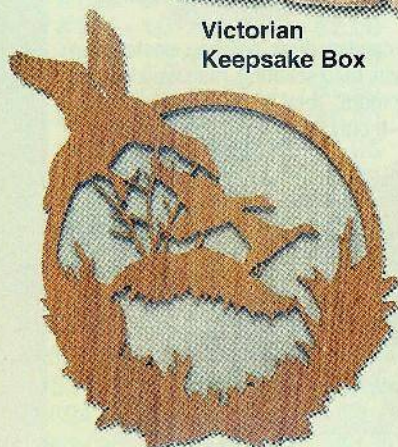
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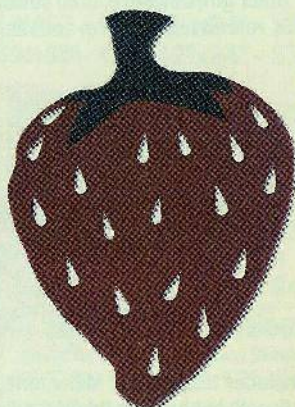
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Victorian
Keepsake Box



Swamp Land



The Making of a
Strawberry Trivet from
Corian® and Inlace



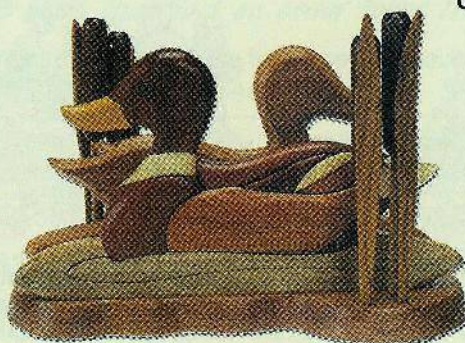
Gorilla



Cats on the Wall Key Rack

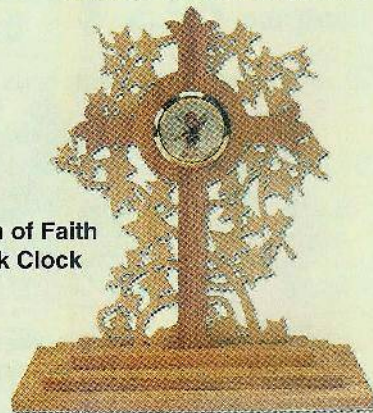


Girl with Flowing Hair



A Ducky Napkin Holder

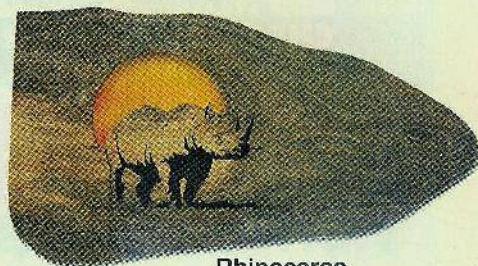
Sign of Faith
Desk Clock



Carve an Egg and Dart Pattern



Carve a Dachshund



Rhinoceros

CREATIVE WOODWORKS & CRAFTS August 2002, No. 86
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Cover design by Kelly Albertson

THE FULL SIZE PATTERNS FOR THE PROJECTS SHOWN ON THIS PAGE ARE LOCATED
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Fawns



The Ground Forces Collection (no patterns for this project)



Indian Chief Clock



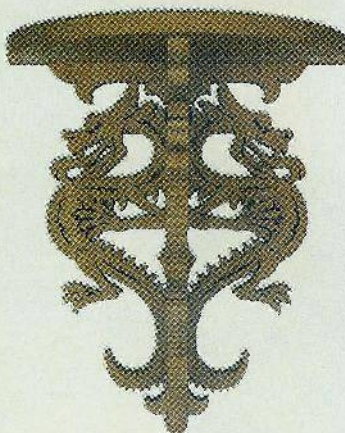
Intarsia Tiger



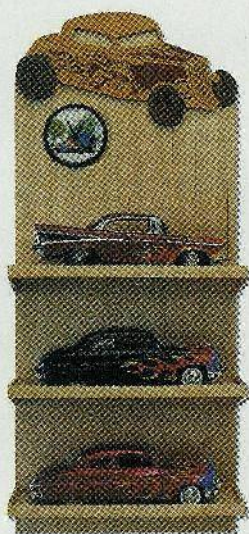
Home Sweet Home Wall Clock



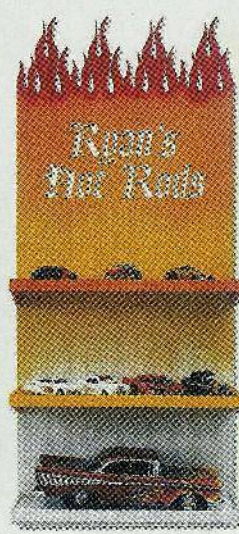
Classic Little Step Stool (no patterns for this project)



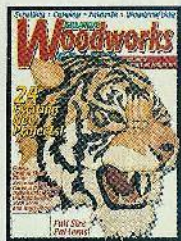
Dragon Wall Shelf



Hot Rod Shelves



Bird Cage



On the cover: the Tiger Intarsia project featured on the cover of this issue was designed by Jim Ryan of Savage, Minnesota. Jim won blue ribbons for his intarsia (including this project) at Joe Diveley's Midwest Scroll Saw Picnic last year. The tiger pictured here was actually crafted by longtime contributing editor, Robert J. Hlavacek Sr., who also shot the process photographs which clearly illustrate the article.

THE FULL SIZE PATTERNS FOR THE PROJECTS SHOWN ON THIS PAGE ARE LOCATED IN PULL OUT PATTERN SECTION NO. 2 FOUND IN THIS ISSUE.



Pattern Located in Full Size
Pattern Section No. 1!

SWAMP LAND

by Denise Green of Daeden Woodworks



SUPPLIES

Wood: red oak or wood of choice—one piece 1/4" x 10" x 10" (for the silhouette)
Tools: scroll saw with assorted blades; drill with bits
Temporary-bond spray adhesive
Sandpaper, assorted grits
Glue
Backer paper of choice
Clear oil finish of choice
Hanger of choice

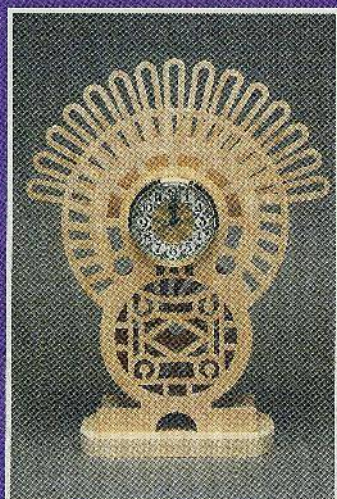
INSTRUCTIONS

Copy the pattern and transfer it to the selected stock, attaching it with spray adhesive. Bore blade entry holes in the waste areas of the pattern. Make all cuts, beginning with the inside and working toward the perimeter.

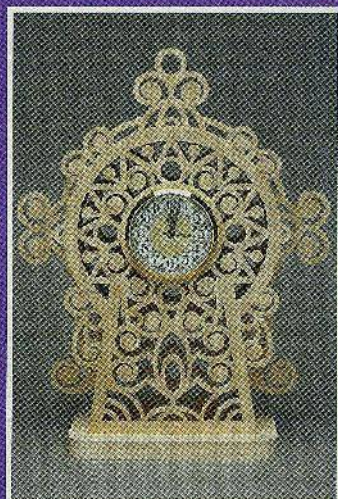
Thoroughly sand the piece. Apply two coats of clear finish to the wood. Cut the backer paper to shape and glue it to the back of the silhouette. When dry, attach the hanger to the back of the piece. Hang and enjoy!



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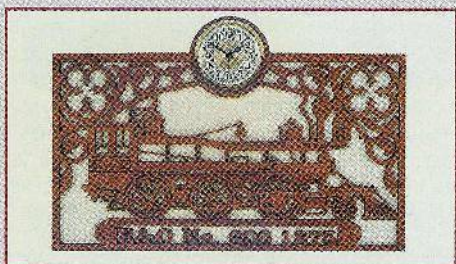
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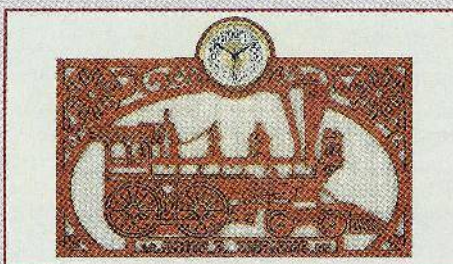
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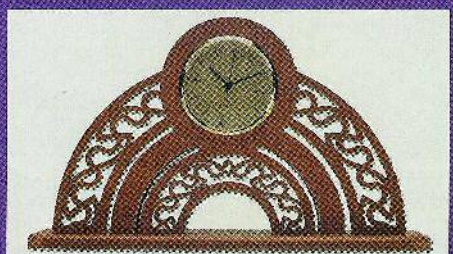
JOHN B. TURNER
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Pattern Located in Full Size
Pattern Section No. 2!

INDIAN CHIEF CLOCK

designed by Philip Wilson and sawn by Vernon Brown of The Wooden Teddy Bear



INSTRUCTIONS

Copy the pattern and transfer it to the selected stock, attaching it with spray adhesive. Using the 2-3/8"-Dia. Forstner bit, bore the hole which will receive the insert of choice. **Note:** this hole should be made prior to any other cutting. Drill 1/16"-Dia. blade entry holes in the waste areas of the pattern. Make all cuts with the Nos. 5 and 7 blades. **Note:** complete all internal cuts before making the outside cuts, as this will give a much more stable piece of wood with which to work.

Gently sand the surface and edges as required. Apply finish of choice. Install your chosen insert. Attach the sawtooth hanger and enjoy!

SUPPLIES

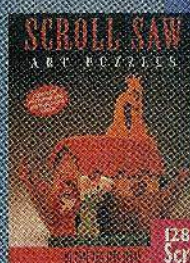
Wood: hardwood of choice (preferably with a tight grain)—one piece 1/2" to 3/4" x 9" x 12"
Tools: scroll saw with Nos. 5 and 7 reverse tooth or crown tooth blades; drill with bits including a 1/16"-Dia. and a 2-3/8"-Dia. Forstner bit
Temporary-bond spray adhesive (3M #77)
Sandpaper, fine to extra fine grits
2-3/4" insert of choice (clock, thermometer, etc.)*

Clear oil finish of choice

Sawtooth hanger (2" wide)

*Inserts are available from The Wooden Teddy Bear, Inc. For a free catalog, call 1-888-762-9149 or visit their website at www.woodentedybearonline.com.

VICTORIAN



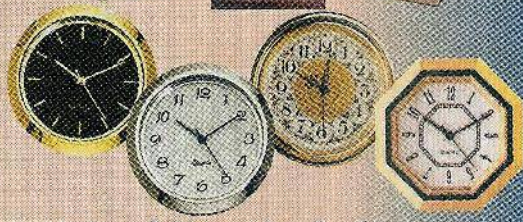
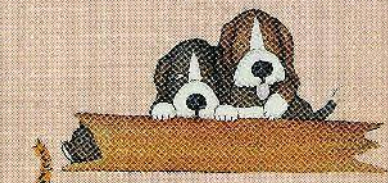
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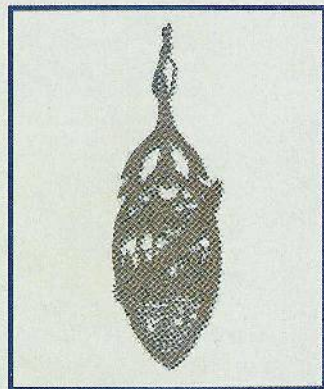
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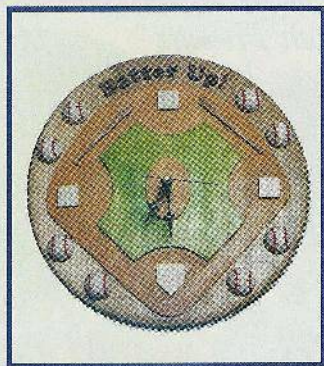
Craft this inspiring intarsia
Eagle from Darin Liles.



Scroll this handsome Eagle
Feather from Tracy Walts.



Make this awesome Tribute to the
Wolf Mini Clock from Dirk Boelman.



Craft this unique Batter Up! Clock
from Sheila Bergner.



Carve this charming Old Salt
from Ivan Whillock

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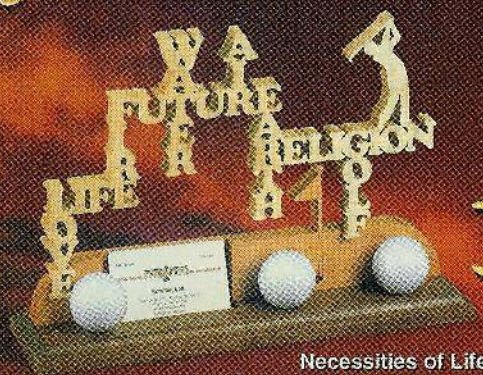
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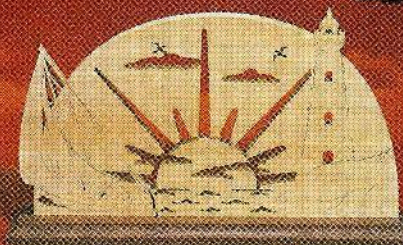
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Pattern Section No. 2!

FAWNS

by Marilyn Carmin of Heartland Creations



SUPPLIES

Wood: wood of choice—one piece 1/2" to 3/4" x 11" x 14"

Note: the dimensions listed here are the minimum required for the pattern. If using stock with a live edge, the dimensions can vary.

Tools: scroll saw with No. 5 (12.5 TPI) blades; drill with No. 58 bit

Temporary-bond spray adhesive

Sandpaper, assorted grits

Clear spray finish of choice

Wood glue

Fabric of choice for backer

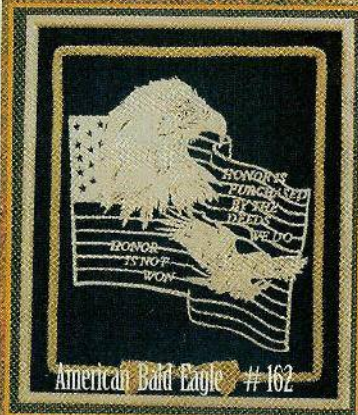
Hanger of choice

INSTRUCTIONS

This pattern works well with an irregular edged, or slabbed, piece of wood. You can also take a dimensioned piece, cut it into an irregular shape, then burn the edges with a torch.

Copy the pattern and transfer it to the selected stock, attaching it with spray adhesive. Bore blade entry holes in the waste areas of the pattern and make all cuts.

Thoroughly sand the piece. Apply finish as directed on the can. When dry, cut and glue fabric of choice to the rear of the piece and attach the hanger. Hang and enjoy!



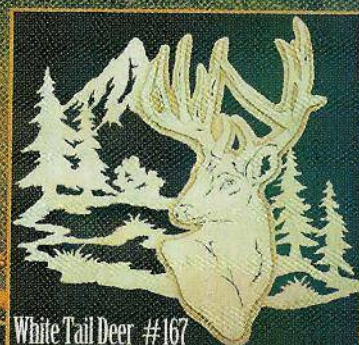
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White Tail Deer #167



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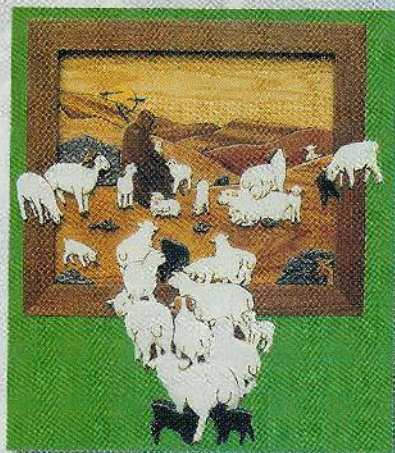
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Pattern Section No. 2!

DRAGON WALL SHELF

by Dirk Boelman of The Art Factory



SUPPLIES

Wood: wood of choice—one piece 1/2" x 7-3/4" x 11-1/2" (for the back piece), one piece 1/2" x 4" x 10" (for the bracket), one piece 1/2" x 5-1/4" x 10-1/2" (for the shelf)

Tools: scroll saw with assorted blades; drill with bits; needle files; carpenter's square

Temporary-bond spray adhesive
Sandpaper, assorted grits
Wood glue
Clamps
Two No. 6 x 3/4" wood screws
Finish of choice
Pair of hangers of choice

INSTRUCTIONS

Looking for something special to display on the walls of your castle? Here's a trio of dragons supporting an ample-sized shelf—perfect for displaying many of your wizardly treasures.

The entire project is made from 1/2" thick material. I chose poplar because it has a greenish color and saws fairly easily, but you can use any color and species of wood you desire. Adhere the patterns to the wood with spray adhesive. Drill blade entry holes and make all cuts, beginning with the interior and working toward the perimeter.

After sawing, use a carpenter's square to ensure that the back edge and top of the bracket are at a perfect 90 degree angle. Adjust as necessary. Remove patterns and touch up any imperfections with needle files, sandpaper, etc. Bore pilot holes for mounting the two No. 6 x 3/4" wood screws in the back piece at the locations shown. Secure the bracket to the back piece with the wood screws and glue.

Center the shelf on top of the back piece/bracket assembly, making sure that the shelf's straight edge is flush with the back piece. Glue and clamp the pieces together until dry.

Apply finish of choice. When dry, attach a pair of hangers to the back and proudly mount the dragons on your castle wall.



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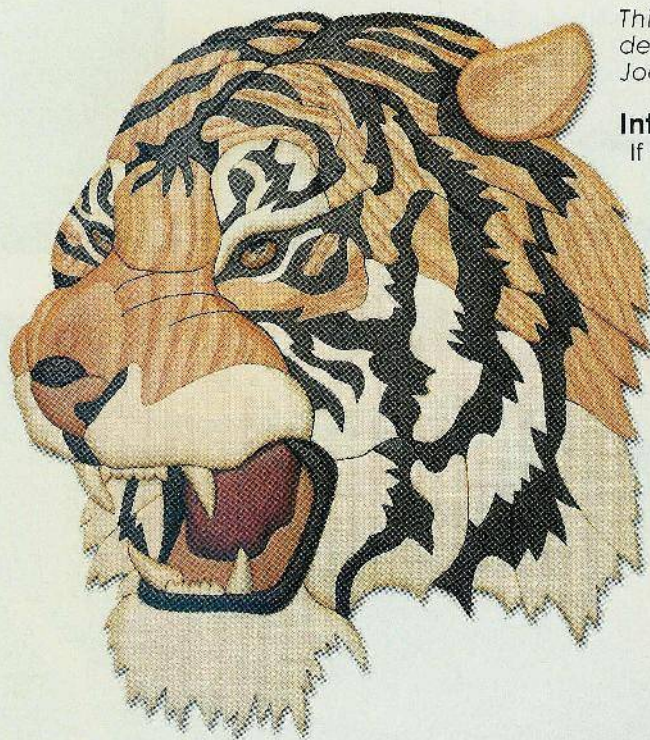
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INTARSIA TIGER

designed by Jim Ryan, sawn and developed by Robert J. Hlavacek, Sr. of Wildlife Intarsia Designs



This challenging, award-winning project earned a well deserved blue ribbon for Jim Ryan, of Savage, Minnesota, at Joe Diveley's 2001 Scroll Saw Picnic in Pontiac, Illinois.

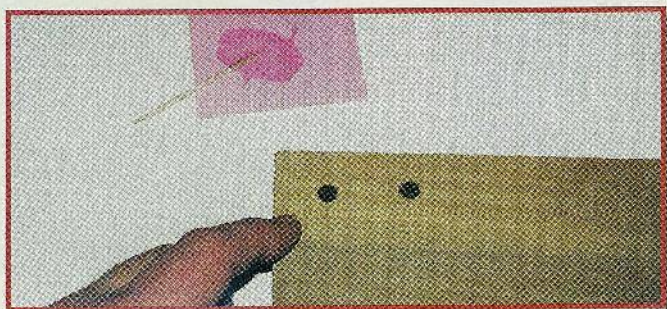
Introduction

If this is your first attempt at intarsia, keep in mind that making this project is like laying bricks—you do it one piece at a time. This tiger has a lot of "bricks," so don't rush through it. Enjoy the process and have some fun. Once you have completed this piece, you shouldn't be afraid to tackle any other intarsia project you find.

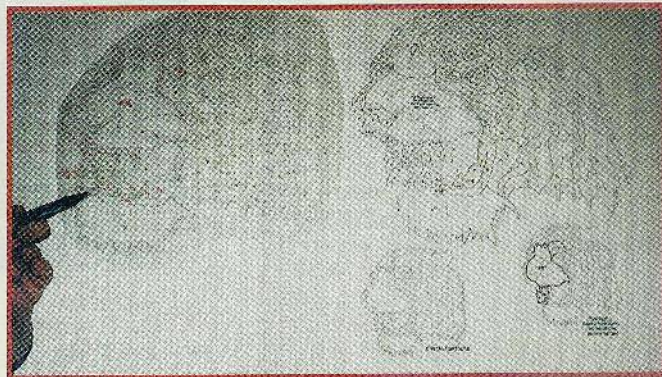
INSTRUCTIONS



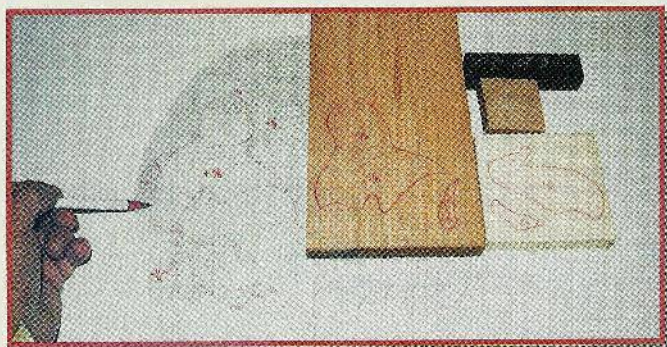
Step 1. Begin the tiger by preparing the eyes. Use a 1/4"-Dia. plug cutter to make the pupils out of wenge. **Hint:** it's a good idea to cut a couple extras just in case.



Step 2. Bore 1/4"-Dia. holes in a piece of poplar to receive the plugs. The plugs should be flush with the surface of the poplar. Glue them in place with 5-minute epoxy. When dry, sand to make sure they are flush. Later, after the eye sockets are cut out, they will be positioned on the eyeballs and a cut line will be traced with the pencil.

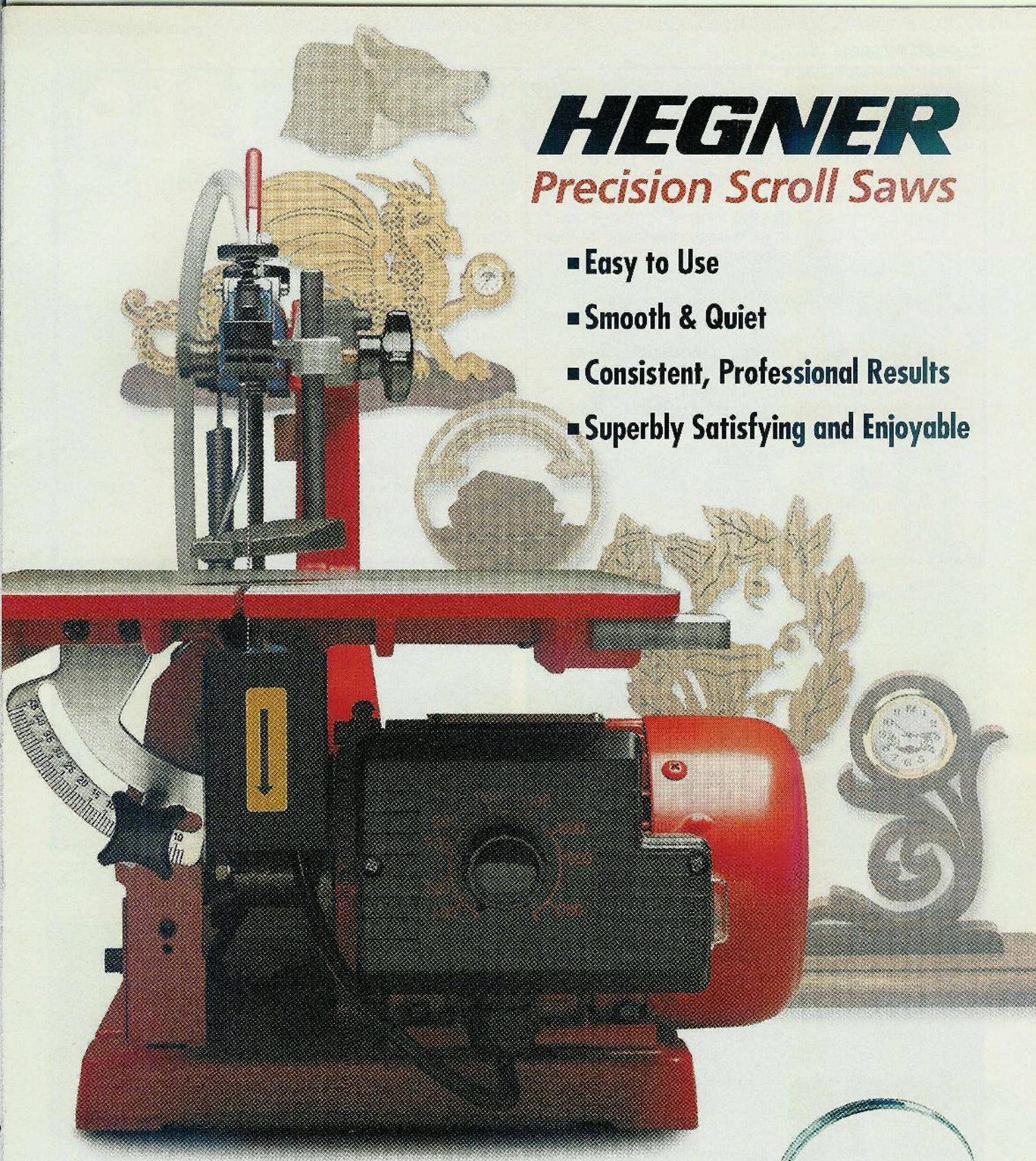


Step 3. Redraw the pattern (located in Full Size Pattern Section No. 2) onto tracing paper. Mark the grain direction arrows and + or - marks where indicated.



Step 4. Position the traced pattern on the wood, utilizing the grain configuration to create a lifelike, furry look. Work on one section at a time to prevent getting look-alike pieces mixed up. Here, we're starting with the nose and muzzle. **Note:** transfer the pattern lines onto the dark pieces with white transfer paper and onto the light pieces with red transfer paper.

continued on page 18



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SUPPLIES

Wood: honey locust—one piece 3/4" x 12" x 12" (orange pieces); wenge—one piece 3/4" x 12" x 12" (black pieces); aspen—one piece 3/4" x 12" x 12" (white pieces); poplar heartwood—one piece 3/4" x 3" x 3" (for the eyes); Bloodwood—one piece 3/4" x 3" x 3" (for the tongue); cherry—one piece 3/4" x 4" x 4" (for the nose and inside of the mouth); plywood—one piece 1/4" x 12" x 12" (for the backer); assorted plywood scraps—1/8", 1/4", and 3/8" thick (for shims)

Tools: scroll saw with Nos. 3 and 9 reverse tooth blades; band saw with 1/16" blade (optional); drill press with 2" long sanding drums of various diameters and medium grit sleeves, and 1/4"-Dia. plug cutter; flutter wheel with 100 grit abrasive; Jim Dandy Mini-Sanding Arbor* and Super Sander* (optional); triangular needle file

Tracing paper (Canson Vidalon Vellum**)

Transfer paper in red and white**

Ball-point pen

0.5mm mechanical pencil

C-clamps

Sandpaper, Assorted grits (including 4300 grit)

Masking tape

3M Scotch tape

Tack cloth

X-acto knife

5-minute epoxy or thick cyanoacrylate (CA) glue***

Slow set epoxy***

Carpenter's glue

Wax paper

Toothpicks

Delta Matte Spray Varnish

Delta Gloss Varnish

Paintbrush

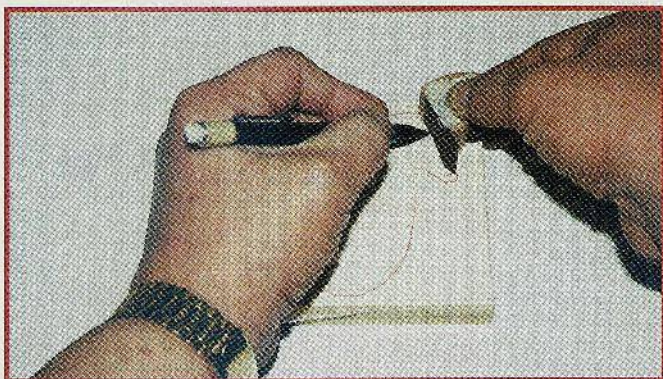
Sawtooth hanger

*Available from Wildwood Designs, call 800-470-9090 (www.wildwooddesigns.com).

**Available from Dick Blick Materials, call 800-828-4548 for a catalog. (www.DICKBLICK.com)

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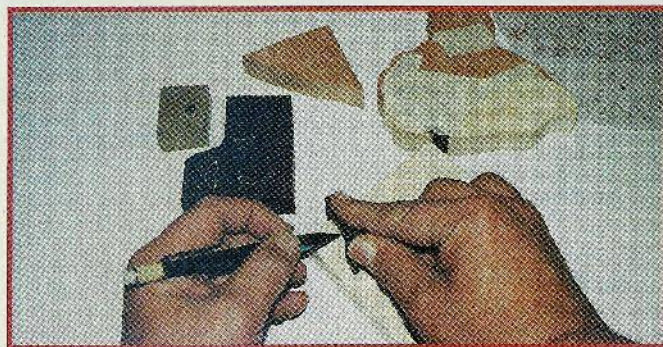
Visit www.wildlifeintarsiadesign.com to see Robert J. Hlavacek's entire line of intarsia and scroll saw patterns or call 708-788-6455 for a catalog.



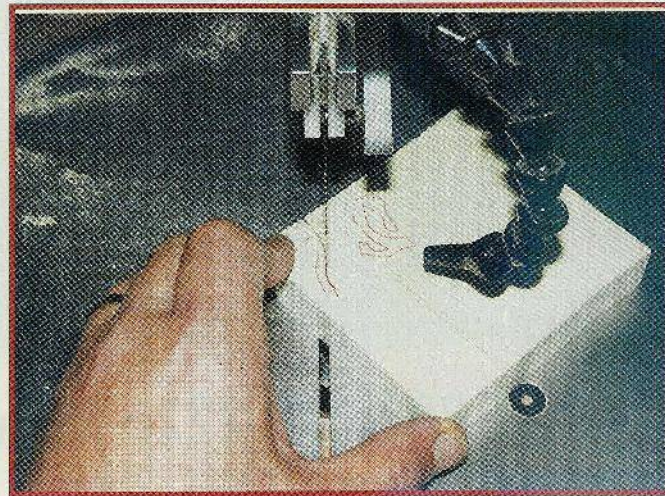
Step 5. Begin cutting the pieces. Make sure your saw table is set square to the blade. Cut slowly and change the blade as it dulls, otherwise it will cut on an angle and the pieces will not fit together properly. **Note:** if you have a band saw, cutting some of the harder pieces of wood with a 1/16" blade will speed up your production time. After cutting out each piece, smooth any bumps or rough edges and true up the pieces with a drum sander. As you cut each piece, use it as a template to draw a more accurate cutting line on the adjacent piece.



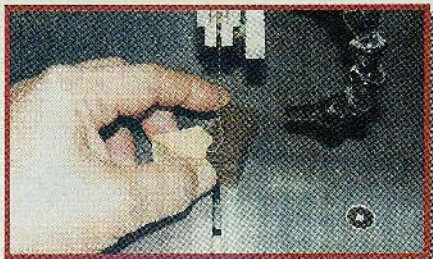
Step 6. As you cut and fit the pieces, hold them together with masking tape on both the top and bottom sides. **Hint:** use a mini arbor to true up the edges of the smaller pieces.



Step 7. With the pieces of the muzzle cut, fitted and taped together, we can put it aside and go on to assembling the right eye. **Hint:** when possible, cut out the darker wood first, then draw the pencil line on the lighter wood.



Step 8. Saw the lighter colored pieces to shape. Working in this order makes it much easier to see the lines when cutting.



Step 9. When working on a project with really small pieces, it is safer to cut if you leave extra material on the pieces and glue them together as you proceed. You can use 5-minute epoxy or thick cyanoacrylate (CA) glue here. In either case, be sure to put a sheet of wax paper down first or you'll have the project stuck to the table.



Step 10. As the pieces are cut, leave a little extra material on the outside edges of the assembled section they make up. After they are glued together, all nine pieces of this section can be cut, fitted and later contoured as easily as one.



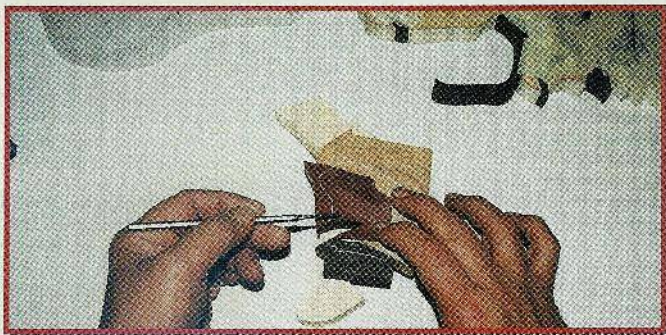
Step 11. Sand into the corners of the glued up assembly as necessary.



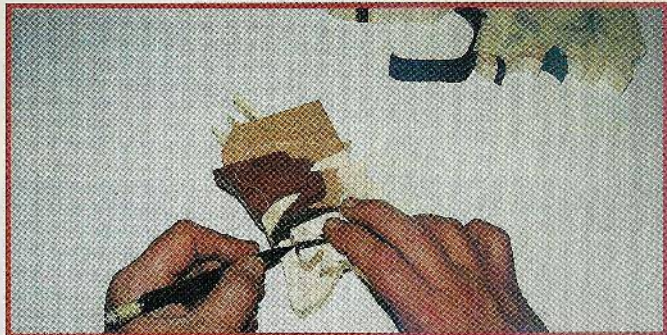
Step 12. At this point, we have the muzzle, right and left eye, and the left brow assemblies glued together, except for the eyeballs which will be contoured convex.



Step 13. With these assemblies taped together, continue cutting, fitting and taping pieces in place. The teeth, mouth, and lower jaw will be the last pieces to go into position.



Step 14. Now that the entire head is complete, it's time to work on the teeth. For taping these pieces together, I used masking tape on the bottom and Scotch tape on the top so I could see the cut lines. Be sure to trim the Scotch tape with the knife where a cut line will be traced so the pencil line will show on the wood. In tight areas where the pencil won't fit, a dental pick, ground down to a point, can be used like a mini-awl to scribe the line.



Step 15. When fitting the teeth, first cut out the pieces into which the teeth will be glued. Trace this assembly on top of the teeth and scribe the cut line. If, after cutting, sanding is necessary to make the teeth fit, it will be easier to do with a Super Sander.

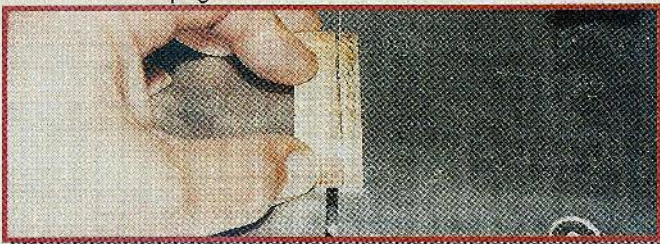


Step 16. Once all pieces of the mouth are cut, fitted and taped together, position the head on this assembly and trace the cut line with the pencil.



Step 17. Pieces on the pattern marked with a + should be raised the amount indicated by placing them on a plywood shim of the proper thickness and tracing around it. Carefully cut the shim slightly within the line, then glue it to the bottom of the piece to raise it. If the shim will be visible on an outside edge, as on the left side of the muzzle, use matching wood instead of plywood.

continued on page 20



Step 18. Pieces marked with a - should be reduced the amount indicated by sanding or resawing. Be sure to remove the wood from the top of the piece, not the bottom. That way, the piece will still lay flat. **Note:** refer to the Raising and Lowering Detail Drawing for additional sections to be raised and lowered.



Step 19. Referring to the Typical Contours Drawing and the photograph, begin contouring with the lowest pieces. Start on the inside of the mouth. Hold the pieces together and scribe a reference line from the lower piece to the side of the adjoining higher piece or pieces.



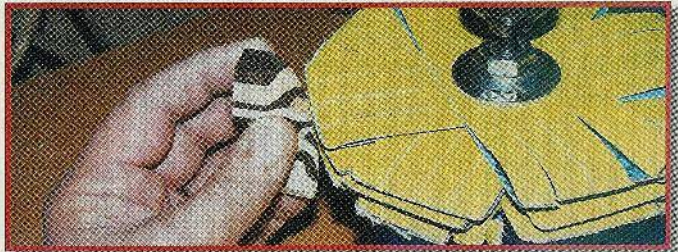
Step 20. Continue to shape the adjoining pieces, rounding them to the traced guidelines with the drum sander. Next, round over the fangs and use the triangular needle file to cut grooves between the small upper and lower teeth.



Step 21. The transition between the piece above the muzzle and the dark piece above that amounts to a 1/4" step. The pieces should be sanded by holding them together and sanding as one to a smooth contour.



Step 22. Here, you can see the benefit of gluing as you go. We can now contour this section of nine pieces as easily as one.



Step 23. After all contouring is completed with sanding drums, the flutter wheel with 100 grit abrasive quickly smooths out any ridges.



Step 24. Begin gluing up the contoured pieces. Lay wax paper on a flat surface so the project doesn't stick to it. Using slow set epoxy, assemble the project—except for the eyeballs, which will be glued in place after the finish is applied. You'll only have about thirty minutes to work with the glue, so don't dawdle! Thoroughly mix the epoxy on a piece of paper and apply a little to the lower half of each piece using a toothpick. Don't use too much or it will squeeze out. Let dry overnight.



Step 25. Lay the tiger on the 1/4" plywood backer and trace the outline. Tilt your saw table 10 degrees to the left and cut slightly within the traced line. This will bevel the edge toward the rear so the plywood is less noticeable. It isn't necessary to cut out all of the "shaggy" areas around the chin and right side, just stay sufficiently inside them so that the backer won't show. After cutting the backer, stain or paint the edge.



Step 26. Apply carpenter's glue to the backer, except for the areas behind the eyes which will be glued in place later. Position the head on the backer and hold in place with a few C-clamps, using shims to protect the surface.

Finishing

Apply several light coats of *Delta Matte Spray Varnish*. When dry, lightly sand with 4300 grit abrasive. Wipe with a tack cloth and apply a final coat. Brush four or five coats of *Delta Gloss Varnish* on the eyes for a lifelike sparkle. When dry, glue in place. Attach the sawtooth hanger to the back and enjoy your accomplishment.

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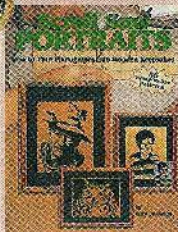
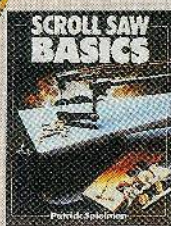
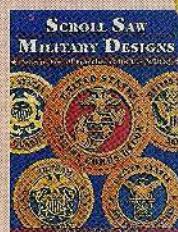
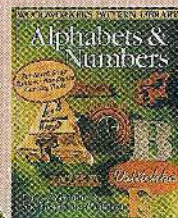
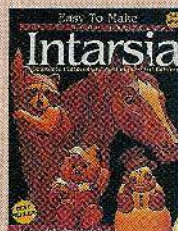
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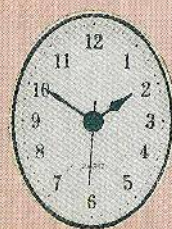
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Pattern Section No. 1!

VICTORIAN KEEPSAKE BOX

designed by Rick Longabaugh of The Berry Basket and sawn by Scott Kochendorfer



BILL OF MATERIALS

Part	Description	Size in inches	Quantity
<i>Walnut:</i>			
A	Lid	1/4 x 7-1/8 x 9-3/4	1
B	Bottom	1/4 x 7-1/8 x 9-3/4	1
C	Front/back	1/4 x 2-9/16 x 8-3/8	2
D	Ends	1/4 x 2-9/16 x 4-7/8	2
E	Bottom spacer	1/4 x 4-7/8 x 7-7/8	1
F	Feet	3/4 x 1-3/16 x 1-9/16	4

SUPPLIES

Tools: scroll saw with No. 2 and No. 5 blades;
drill with bits
Temporary-bond spray adhesive
Sandpaper, assorted grits
Wood glue
Finish of choice
Tape
Two hinges of choice
No. 18 x 1/2" wire brads
No. 18 x 5/8" wire brads
No. 18 x 3/4" wire brads

continued on page 24

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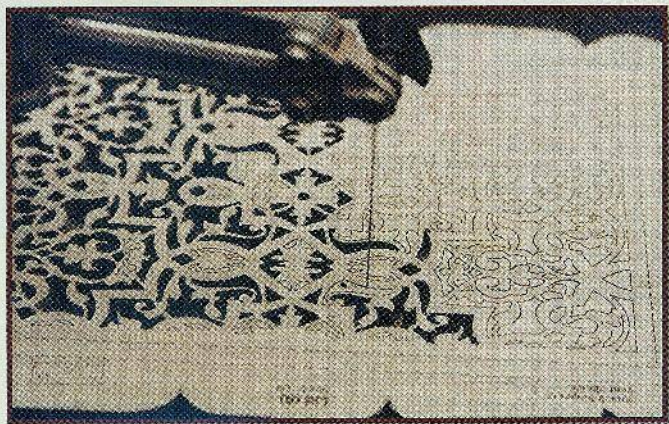


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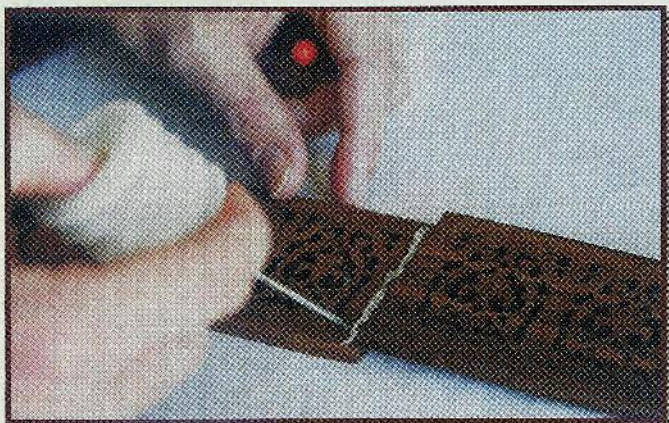
INSTRUCTIONS



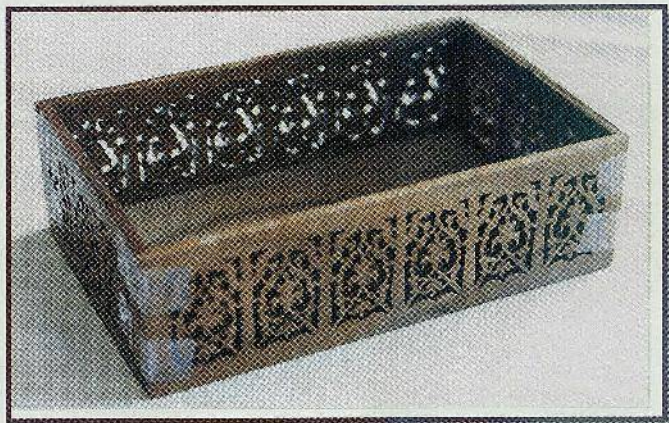
Step 1. Select your material. Referring to the Bill of Materials, cut the wood pieces to size. Copy and adhere the patterns to the pieces. Bore blade entry holes in the waste areas and cut the pieces to shape.



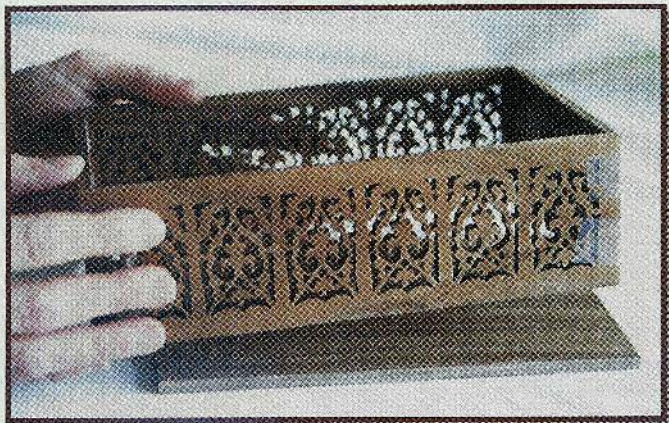
Step 2. When cutting is complete, remove the pattern paper from the wood.



Step 4. Apply a small bead of glue to one end of two box pieces to be glued together. Attach the ends (D) to the front/back (C) pieces to form a 90 degree angle.



Step 5. After gluing the box assembly together, apply small strips of tape as shown to help hold everything together. Allow the glue to dry.



Step 7. Position the box over the spacer, then carefully drill small pilot holes where indicated on the patterns to accept the No. 18 x 5/8" wire brads which will add strength and stability to the joints.



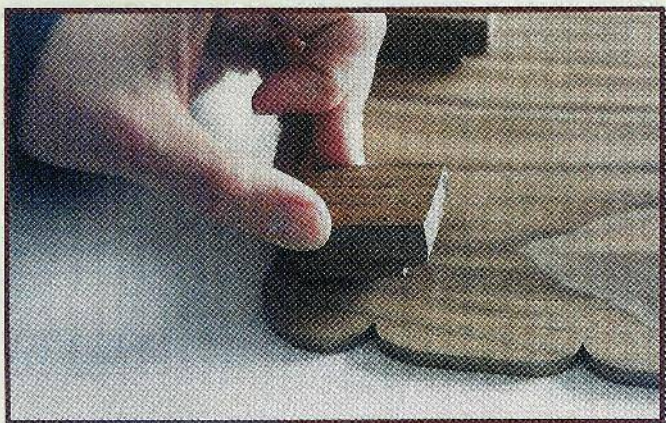
Step 8. Hinge the lid (A) to the box assembly. When attaching the hinges, it is helpful to glue or tape the hinges in position before drilling.



Step 3. Sand all pieces as needed and prepare for assembly.



Step 6. Apply a thin bead of glue to the bottom of the box assembly to secure the box to the spacer (E).



Step 9. Glue the feet (F) to the underside of the bottom (B), then glue the bottom in place. Finish as desired.

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	12"x16"	4.30	5.70	6.70
	12"x20"	5.40	7.20	8.50
POPLAR	12"x12"	4.20	5.60	6.60
	12"x16"	5.60	7.50	8.80
	12"x20"	7.00	9.30	10.90
ASH	12"x12"	5.20	6.90	8.10
	12"x16"	6.90	9.20	10.80
	12"x20"	8.60	11.50	13.50
BASSWOOD	12"x12"	6.50	8.70	10.20
	12"x16"	8.70	11.60	13.70
	12"x20"	10.90	14.50	17.10
BIRCH	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
	12"x20"	13.10	17.50	20.60
OAK	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
	12"x20"	13.10	17.50	20.60
BUTTERNUT	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
	12"x20"	13.10	17.50	20.60
MAPLE	12"x12"	7.90	10.50	12.40
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WALNUT	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
	12"x20"	13.10	17.50	20.60
PURPLEHEART	12"x12"	7.90	10.50	12.40
	12"x16"	10.50	14.00	16.50
	12"x20"	13.10	17.50	20.60
CHERRY	12"x12"	7.90	10.50	12.40
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Sandpaper, assorted grits
Carpenter's glue

Battle Tank With Rotating Turret SUPPLIES

Wood: pine—one piece 1-1/2" x 5-3/4" x 5-3/4" (for the turret), one piece 1-1/2" x 4-1/4" x 10-1/2" (for the bottom piece), one piece 1-1/4" x 5-3/4" x 10-1/2" (for the top piece), one piece 3/4" x 3" x 24" (for the ten wheels)

1/2"-Dia. doweling (one piece 1-1/2" long for the pivot dowel, and one piece 8" long for the gun barrel)

Ten 3/8"-Dia. axle pins
Paint of choice

INSTRUCTIONS

The tank body and turret

Size your stock (including the dowels) to the dimensions indicated in the supplies list. Referring to the Tank Plan View Drawings, tilt the miter saw head to 40 degrees and make a cut at each end of the top piece. With the saw still set to 40 degrees, cut the turret to size. Tilt the saw head to 22 degrees and cut the bottom piece. Bore the holes for the axle pins, the pivot dowel, and the gun barrel.

Referring to the Tank Assembly Drawing, laminate the top and bottom piece together with carpenter's glue. The top piece will overlap the bottom piece by 3/4" on both sides. Wipe off any excess glue that has squeezed out and clamp together until the glue sets. Glue the pivot dowel into the 1/2"-Dia. hole in the top piece, and the gun barrel in place on the turret.

The wheels

Cutting the wheels is the most time consuming part of this project. Locate the center of each of the ten wheels on the selected stock. First bore a 3/4"-Dia. hole 1/2" deep with the Forstner bit as shown in the Plan View Drawing. Next mount your 2"-Dia. hole saw in the drill press and slowly lower the saw into the work piece on the same center used for the Forstner bit. Do not drill all the way through the wood, allow the wheel to remain attached. Cut all the wheels (including those for the jeep and howitzer gun) in this manner. Finally finish cutting them out with your scroll saw, band saw, or coping saw. Sand the wheels.

Final assembly and finishing

Sand all surfaces smooth. Referring to the Tank Assembly Drawing, attach the wheels using the 3/8"-Dia. axle pins. Paint your tank as desired. **Note:** do not paint the pivot dowel or the hole in the turret, this will allow it to rotate freely.

continued on page 28

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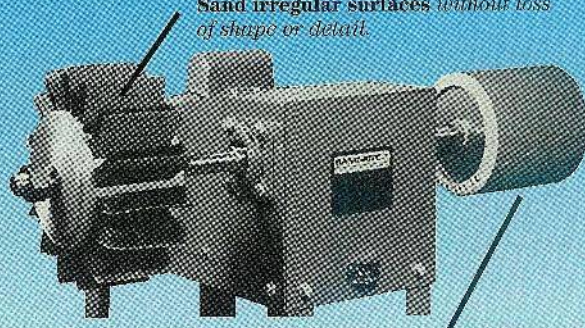
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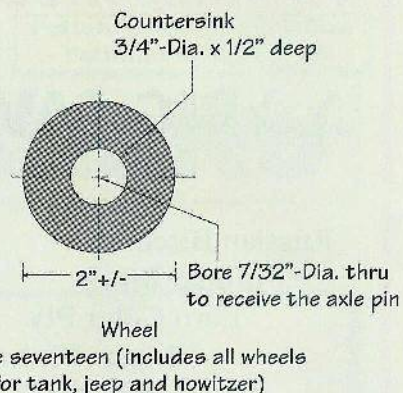
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Plan View Drawing Battle Tank With Rotating Turret



Make the parts

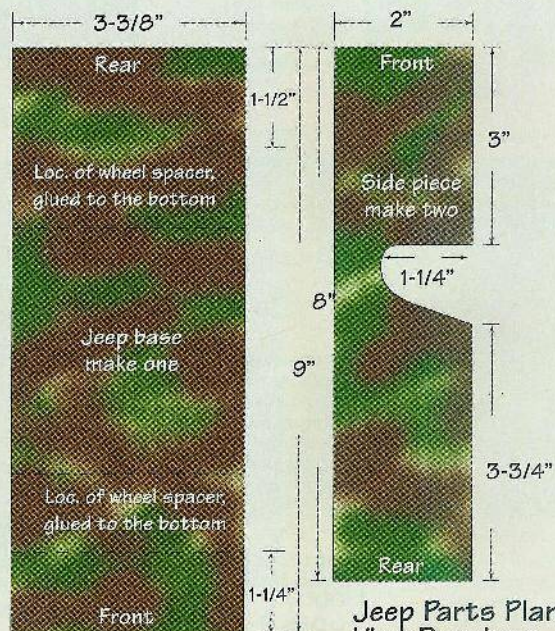
Size your stock to the dimensions indicated in the supplies list. Referring to the Plan View Drawings cut the various components to shape. If you intend to paint your piece you can certainly use plywood for many of the pieces.

Begin with the Jeep body. First glue the front and rear pieces to the base as shown in the Jeep Assembly Drawing. Next glue the wheel spacers to the lower surface of the base in the locations indicated in the Plan View Drawings. Attach the front and rear wheel wells to the side piece, centered over the wheel spacers. Sand as necessary.

Referring to the Rear View Detail Drawing, glue the hitch in place, centered under the rear bumper. Bore the 13/64"-Dia. hole which will receive the spare tire axle pin as shown. Referring to the previous instructions, make the five wheels for the jeep.

Glue the seat bottoms to the seat backs (as shown in the Final Assembly Drawing) and install them in the jeep. The angle of the seat backs should be about the same as that of the opening cut into the side pieces.

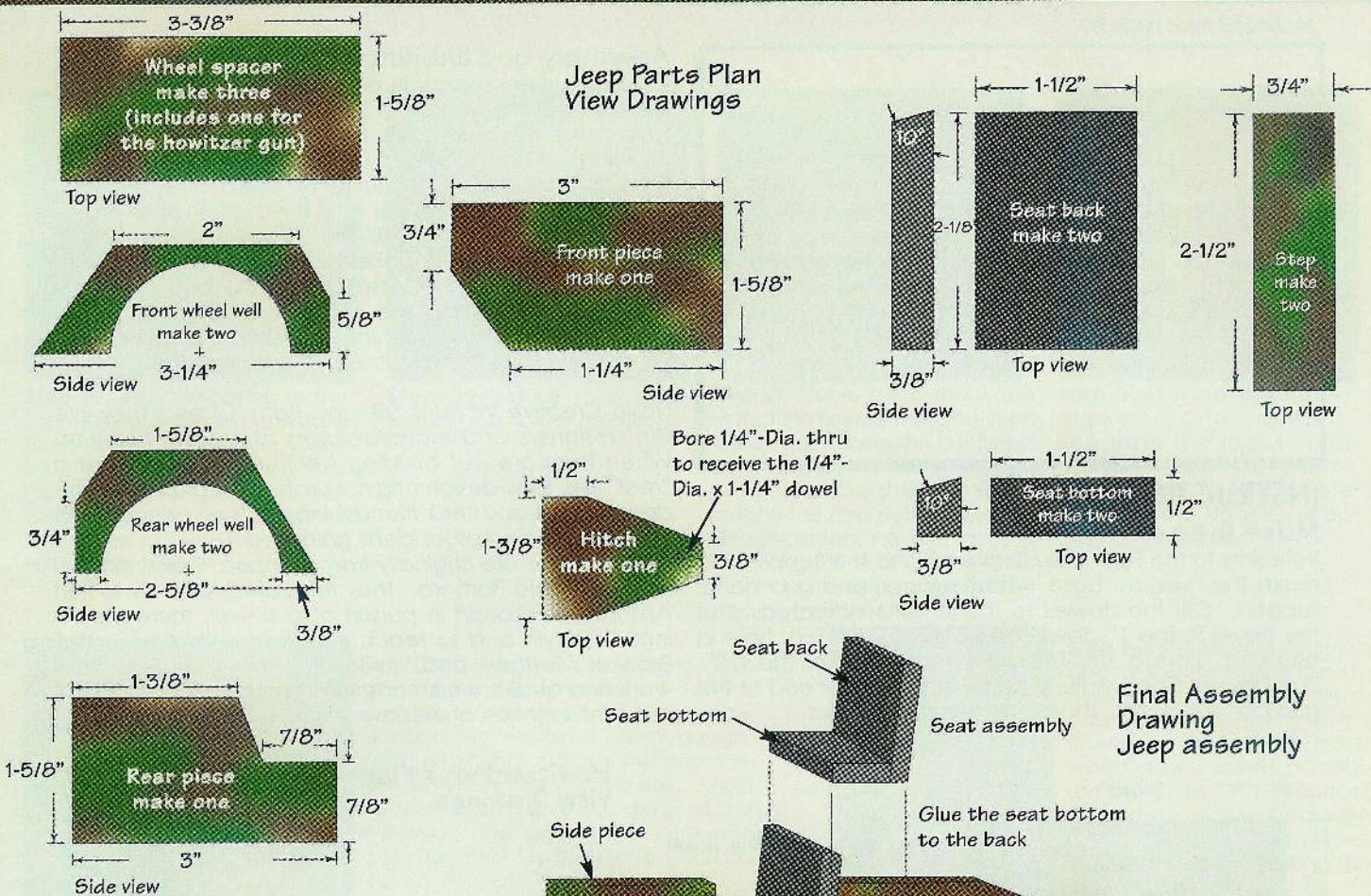
Make sure all surfaces are sanded smooth. Paint the jeep as desired. Install the wheels by gently tapping the axle pins into the 13/64"-Dia. holes as shown in the drawings.



THE JEEP SUPPLIES

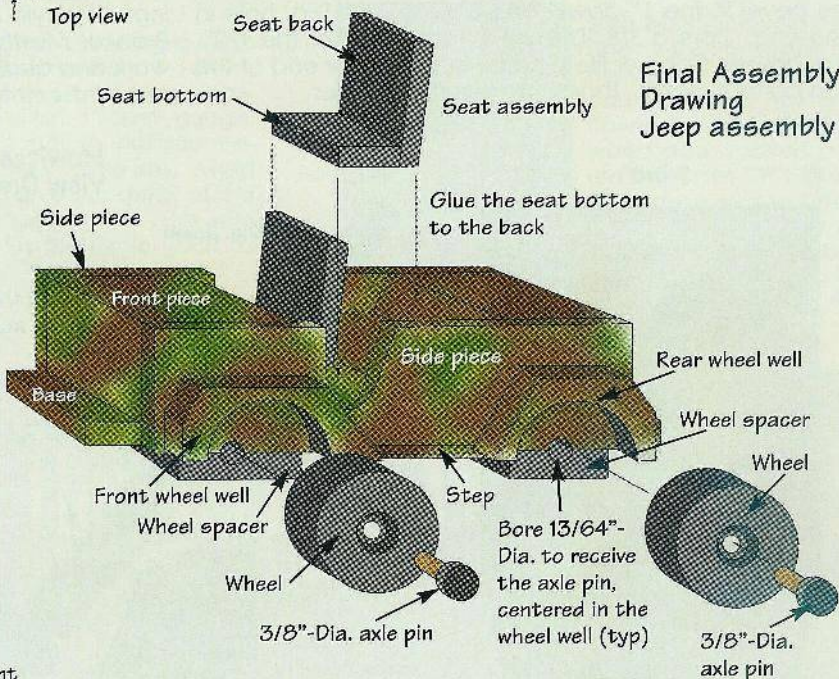
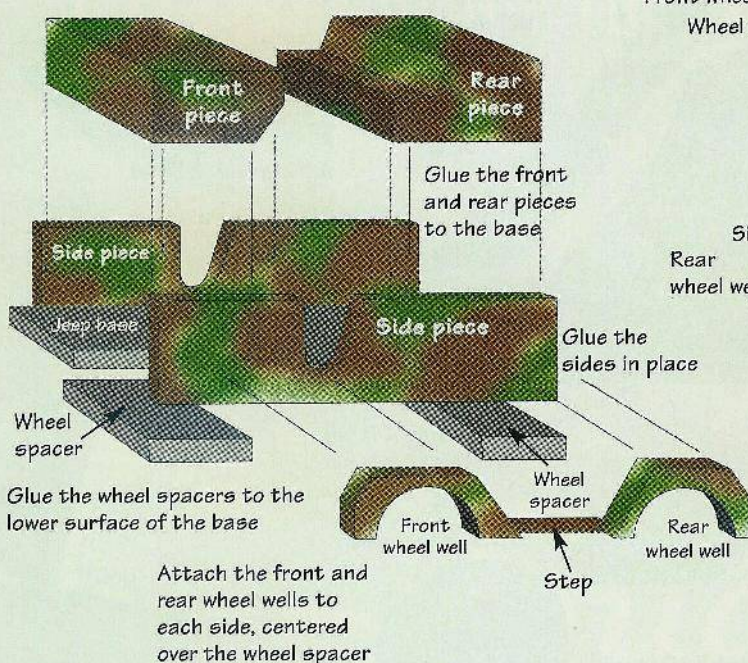
Wood: pine or wood of choice—one piece $1/2"$ x $3-3/8"$ x $9"$ (for the jeep base), two pieces $3/8"$ x $1-5/8"$ x $3-3/8"$ (for the wheel spacers), one piece $1/2"$ x $1-3/8"$ x $1-7/8"$ (for the hitch), two pieces $3/4"$ x $1-1/4"$ x $3-1/4"$ (for the front wheel wells), two pieces $3/4"$ x $1-1/4"$ x $2-5/8"$ (for the rear wheel wells), one piece $3/4"$ x $3"$ x $16"$ (for the wheels), one piece $1-5/8"$ x $3-3/8"$ x $3"$ (for the front piece), one piece $1-5/8"$ x $3-3/8"$ x $3"$ (for the rear piece), one piece $1/2"$ x $3-3/8"$ x $9"$ (for the base), two pieces $3/8"$ x $1-1/8"$ x $2-1/8"$ (for the seat backs), two pieces $3/8"$ x $1/2"$ x $1-1/2"$ (for the seat bottoms); Baltic birch plywood—two pieces $1/8"$ x $2"$ x $8"$ (for the side pieces), two pieces $1/8"$ x $3/4"$ x $2-1/2"$ (for the steps)
1/4"-Dia. doweling (one piece $1-1/4"$ long)
Five $3/8"$ -Dia. axle pins

Jeep Parts Plan View Drawings

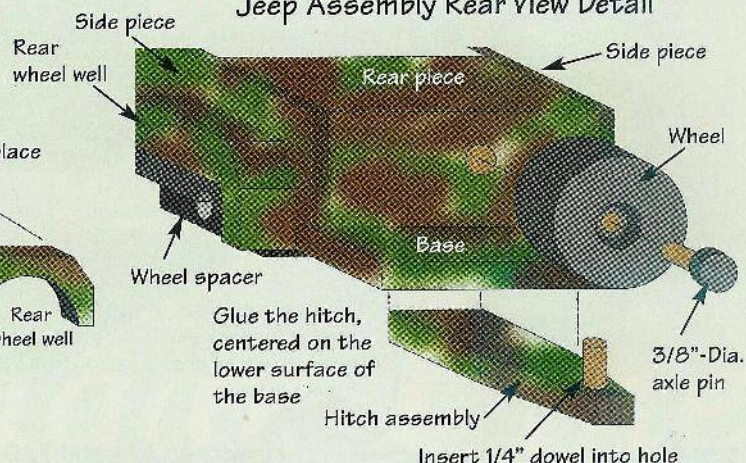


Final Assembly Drawing Jeep assembly

Jeep Assembly Drawing



Jeep Assembly Rear View Detail



continued on page 30

HOWITZER GUN SUPPLIES

Wood: pine or wood of choice—one piece 1/2" x 3-3/8" x 8-3/4" (for the howitzer base), one piece 3/8" x 1-5/8" x 3-3/8" (for the wheel spacers), one piece 1-1/2" x 2-1/2" x 2-3/8" (for the gun barrel support), one piece 3/4" x 3" x 6" (for the wheels)
Doweling—one piece 1"-Dia. x 2-3/4", one piece 1/2"-Dia. x 3", one piece 3/8"-Dia. x 6-1/2"
Two 3/8"-Dia. axle pins

INSTRUCTIONS

Make the parts

Referring to the Plan View Drawings and the Supplies list, make the howitzer base, wheel spacer, and gun barrel support. Cut the dowels to the lengths indicated. Cut the bevel in the 1" dowel and bore a 1/2"-Dia. hole in one end. Bore a 3/8"-Dia. hole in one end of the 1/2"-Dia. dowel. Grind or file a notch in the upper end of the gun barrel support. Thoroughly sand all pieces.

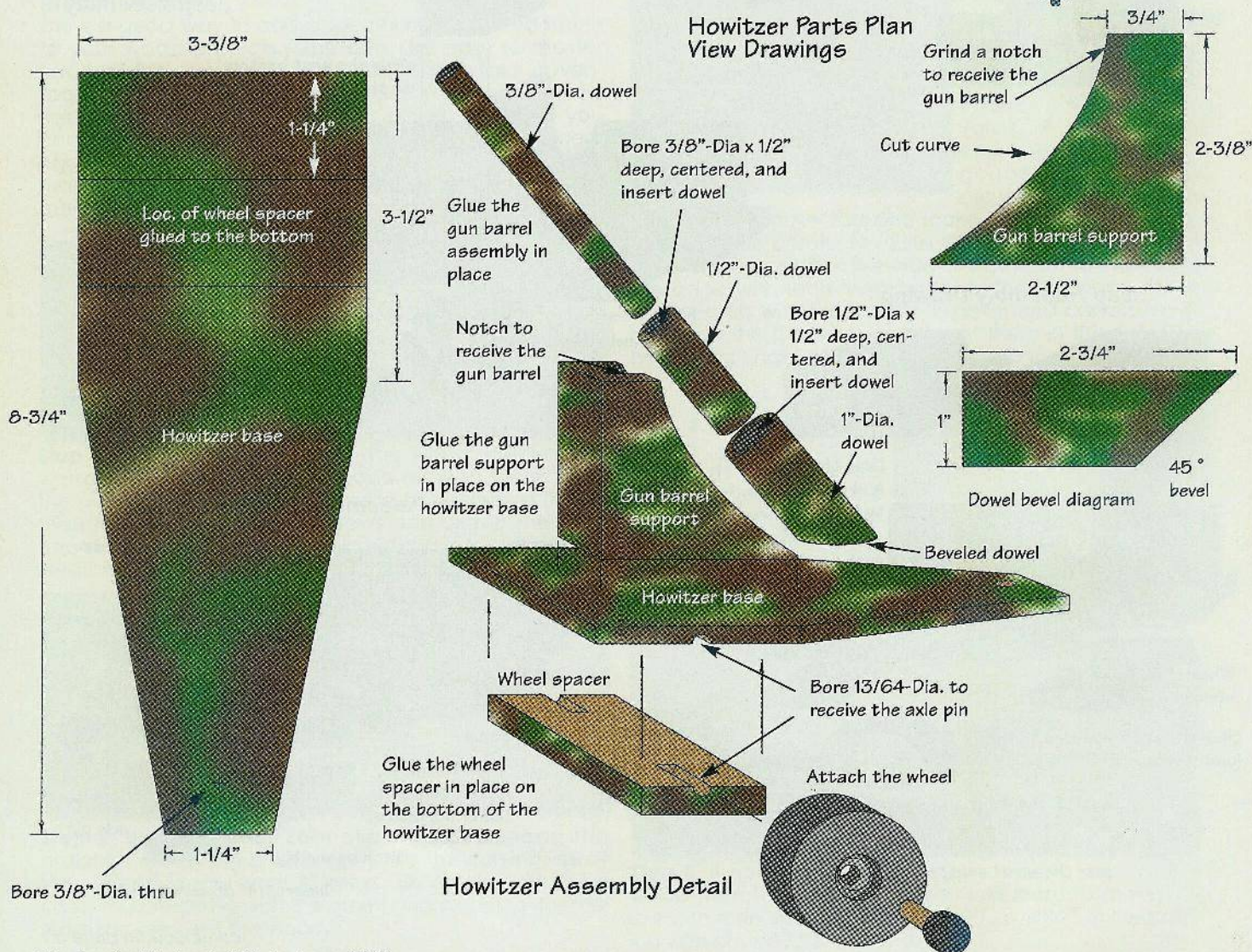
Assembly and finishing

Glue the wheel spacer in place on the lower surface of the howitzer base. Bore 13/64"-Dia. holes in each side to receive the axle pegs (see the Howitzer Assembly Drawing). Attach the gun barrel support to the top surface of the base. Continuing to refer to the drawing, insert the 1/2"-Dia. dowel into the hole in the 1"-Dia. dowel, then insert the 3/8"-Dia. dowel into the hole in the 1/2"-Dia. dowel to make the gun barrel assembly.

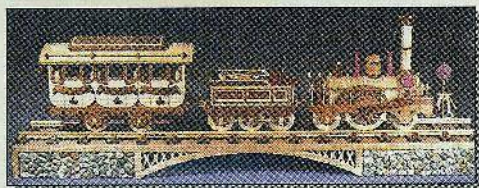
Glue the gun barrel assembly to the base and gun barrel support. Sand the assembled howitzer gun to make sure it is smooth. Paint as desired and attach the wheels by gently tapping the axle pins in place.

Neslo Creative Works is Erik and Patty Olsen. They are the designers and manufacturers of custom furniture. When they are not building furniture or working at a "real" job, they design original crafts based on their children's ideas and their friends' input. They occasionally get some very unusual ideas going.

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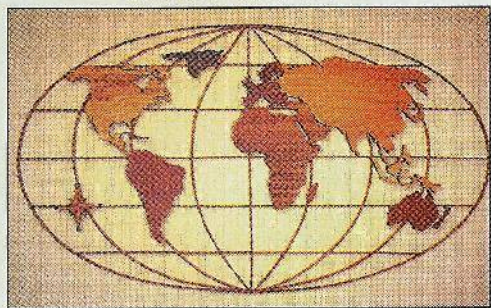
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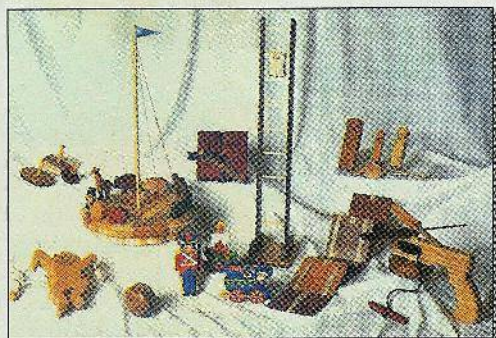
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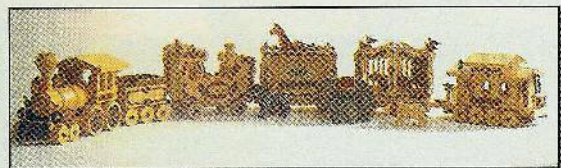
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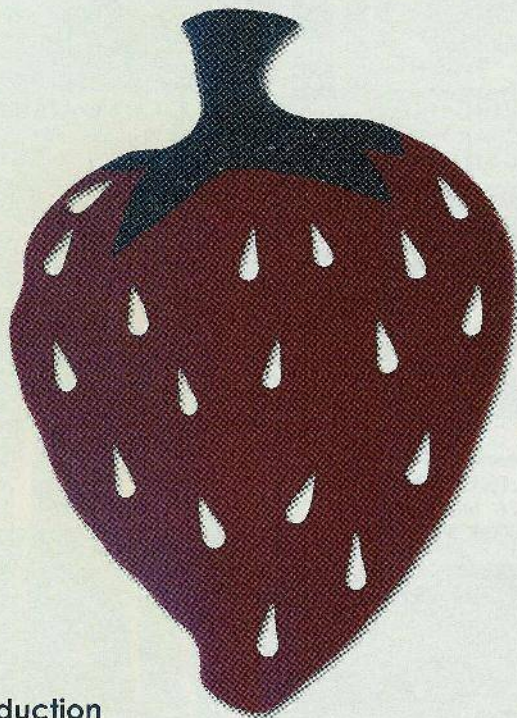
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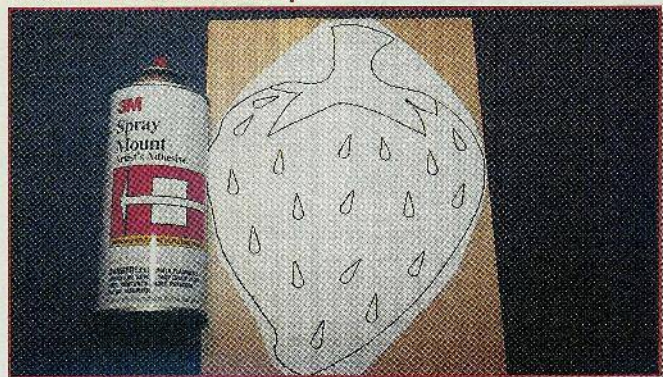
by Barry Gross (Mr. Solid Surface) of BG Artforms



Introduction

Ever since I was a child growing up in the 50's and 60's (I know I am dating myself here), eating freshly picked strawberries and attending the local strawberry festival in the late spring were eagerly anticipated seasonal pleasures. So this spring, when my wife asked me to design her a trivet, the first subject that popped into my mind was the strawberry. But enough of my childhood, let us turn our attention to making the strawberry with InLace seeds.

Make the Strawberry



Step 1. Corian® has a definite top and bottom. The top is generally smoother than the bottom, and the bottom might have writing on it. However, with colors red, yellow, black and lilac, you can use either side because they are both the same. Place masking tape on the surface of both the red and green pieces. This will aid in keeping your blade from overheating when you are cutting the material. Use 3M Spray Mount™ artist's adhesive to adhere the pattern to the surface.

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SUPPLIES

Corian®—one red piece 1/2" x 8" x 9" (for the strawberry), one green piece 1/2" x 4-1/4" x 5-1/2" (for the stem)

Tools: scroll saw with a No. 9 Artisan blade*; drill with 1/16"-Dia. bit; pneumatic sander Model 130 (optional)**; belt or disc sander with aluminum oxide sanding discs (optional)**; polishing wheel with muslin wheel and a good polishing compound (optional); random orbital sander (optional); hone InLace (white, the material used for the seeds) **Note:** white Sculpy clay can also be used if you cannot obtain InLace

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Denatured alcohol

Hot Stuff Super "T" Cyanoacrylate (CA)* glue

Masking or packing tape

Double-faced tape

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**The Model 130 pneumatic sander is also available for \$35.95, as is a solid surface aluminum oxide sanding kit (CSK-3) for \$15.95, both from BG Artforms. Photos and descriptions of these sanding tools can be found on BG Artforms' website.



Step 2. Round over the back of the No. 9 scroll saw blade using a hone.



Step 3. Make sure that the scroll saw blade is exactly 90 degrees to your scroll saw table.

continued on page 34

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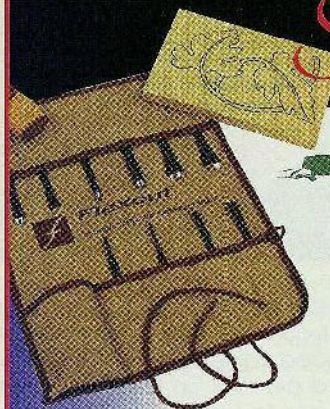
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AB #4	16	up to 1/4"	up to 1/2"	up to 1/4"
AB #5	16	up to 1/4"	up to 3/4"	up to 1/4"
AB #7	14	up to 1/2"	up to 1"	up to 1/2"
AB #9	14	up to 1"	up to 1-1/2"	up to 1"
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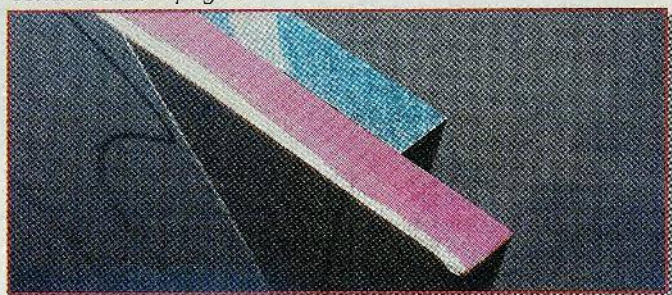
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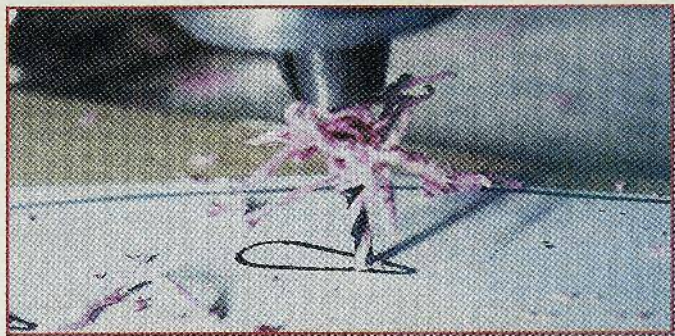
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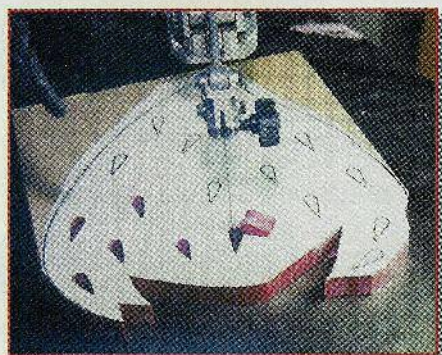
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Step 4. Stack cut the green and red sections using the No. 9 Artisan blade. Stack cutting ensures that you will be able to obtain a perfect cut. Take the green piece and tape it with double-faced tape to the bottom of the red piece. **Note:** the red piece is on the top where the pattern is visible. In order to keep the workpiece level while you are cutting the stem section, place another piece of scrap material 1/2" thick on the same side that you are placing the green piece. This scrap piece of material can be placed anywhere toward the lower area of the strawberry.



Step 5. Drill the entry holes for the seeds using the 1/16"-Dia. drill bit.



Step 6. With the scroll saw, cut out the seeds.



Step 7. Using denatured alcohol, wipe off the edges of the stem and strawberry.

Step 8. Glue the stem to the strawberry using *Hot Stuff Super "T"* Cyanoacrylate (CA) glue. *Hot Stuff Super "T"* dries in approximately 30 seconds, thus giving you some time to place the two pieces together. Next, place masking or packing tape on the back side of the strawberry over the seed holes. This is to keep the *InLace* in the seed holes during the next step. Mix the white *InLace* following the manufacturer's instructions and pour into the seed holes. **Hint:** make sure to overfill the holes.



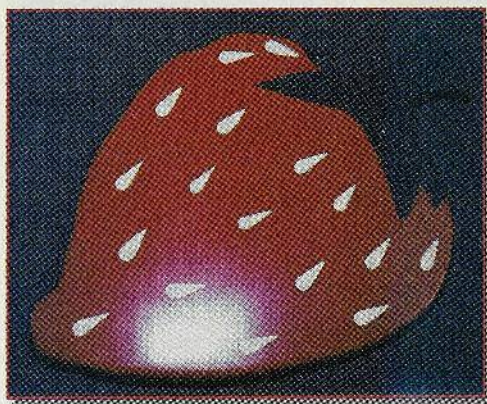
Step 9. After the *InLace* is dry, sand it smooth using 220 grit sandpaper with a random orbital sander.



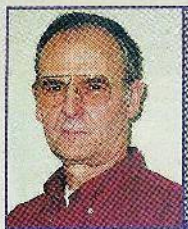
Step 10. Round over the edges of the strawberry with a pneumatic sander.



Step 11. Wet finish sand your strawberry, using the special aluminum oxide sanding discs to remove any scratches and to give it a lasting shine. Notice the "slurry" made with the water and the 12,000 grit wet sanding pad.



Step 12. Wipe off the slurry and polish the strawberry with a muslin wheel for a brilliant shine.



Wes' Workshop

Subject: Wood Movement

An underlying concern

One aspect of woodworking that is often overlooked is the subject of wood movement, and I am not referring to the occasional misplaced board (although that is an aspect that often occupies a good portion of *my* day). No, I am referring to the dimensional changes that occur when wood absorbs or gives off moisture. Anyone who designs or builds a project ignores these dimensional changes at their own risk. It is incumbent upon us to consider the effect wood movement will have on our work.

A good example of proper planning for this occurrence can be found in the hardwood flooring industry. Typically, during installation, a gap is left around the perimeter of the room and nails are driven in on an angle. These precautions are taken to allow for the expansion and contraction of the material. But even with all those precautions, you will sometimes see small gaps between some of the boards in the dry season and tight or even buckled joints when it is damp. To further confuse matters, different species of wood expand and contract at different rates. Some exhibit little movement while others seem to buckle at the forecast of rain. Please keep in mind that I live in New Jersey, where we have about the worst extremes in humidity you can imagine. The moisture content of the lumber in my shop ranges from a low of 6% in the winter with the wood stove roaring, to a high of 14% in August after a rainstorm. If you were to build a bookcase in the winter using solid wood with a moisture content of 6%, and made the back with tight fitting joints, chances are that by the end of summer your books would be on the floor.

There are answers out there

So how do we plan for wood movement? In a previous column, I recommended a book entitled *"Understanding Wood,"* written by R. Bruce Hoadley, and published by Taunton Press. In chapter six, Hoadley details a formula for wood movement, along with all of the variables that have an effect on it. Simply put, wood moves in three directions: tangentially, across the width of a flat sawn board; radially, across the width of a quarter sawn board; and longitudinally, along the length of the board. Of the three, only tangential movement is of great concern to us. Longitudinal movement (the change in length) of a single board is relatively insignificant. Likewise, radial shrinkage is also fairly minimal, quarter sawn boards as a rule are more stable and radial shrinkage averages approximately 75% less than tangential shrinkage.

In addition to Hoadley's book, by far the best resource I've found for predicting wood movement is on the web. I recently found a website that has more wood information than you can believe, www.woodweb.com. Go to calculations, enter the appropriate data, and voila, there it is, figured out for you!

In the beginning...

Now for the practical application of all this. I recently worked on Dirk Boelman's design "The Creation" for *Creative Woodworks & Crafts Exclusive Patterns*. The frame for the project is made with boards that are 4-1/4" wide. At that dimension, wood movement has to be considered.

You have probably even seen picture frames where the miter joint has opened at the outside point, or at the heel on the inside. In all likelihood the

miter cut was accurate to start with, but when the wood expanded the heel opened up, or when it shrunk, the toe opened. To compound that, when you have an outer frame directly attached (as in "The Creation"), those joints will open up as well. The dilemma encountered was how to attach this type of frame without ruining the corner joints?

An inspired solution

My solution was to use concealed machine bolts with captured nuts that allowed the wood to move without disrupting the carefully machined joints. The bolts must be located so as to be inserted into the middle of the edge of the main frame. Once you have located the proper position for the bolts, drill a hole, insert the bolt and thread the nut onto it. Mark this position, remove the nut and bolt, and mortise

the nut into the wood, making the fit as tight as possible.

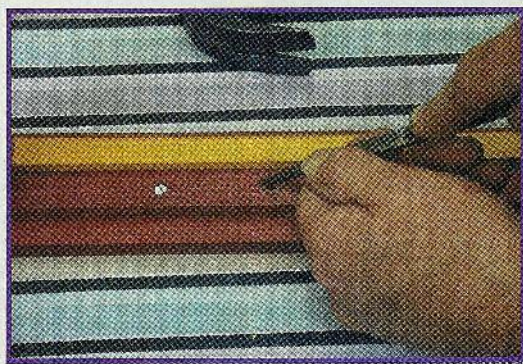
Set the nuts into the mortises, and thread the bolts onto the nuts, setting them tight. Back them out until they are flush with the surface. Now comes the tricky part. Once you have all the bolts in place, put the frames together, centering them evenly on the four sides. Turn the bolts in, marking their position on the main frame. Back them out and separate the frames. Now drill a slightly oversized hole into the main frame, slightly deeper than the length of the bolt.

Reassemble the frame and screw the bolts into a countersunk hole in the outer frame and into the main frame. Complete the project by plugging the holes and finishing them. Now the wood can change seasonally without parting any corner joints, and the overlays will mask any heel or toe changes. By the way, 4-1/4" purple heart will move 1/16" from 6% to 12% moisture content.

If you would like to order the pattern for "The Creation" send check or money order for \$12.95 plus \$2.00 shipping and handling (and make payable) to All American Crafts, 243 Newton-Sparta Road, Newton, NJ 07860, Attn. R. Becker. To order by credit card (Visa, MasterCard, & Amex accepted) call Marie at: (973) 383-8080 ext.104.



"The Creation" is an exquisite pattern designed by Dirk Boelman for Creative Woodworks & Crafts Exclusive Patterns.



My answer to wood movement was to install hidden hardware, allowing the material to expand and contract.



The nut is mortised into the frame member and later plugged and hidden



GIRL WITH FLOWING HAIR

by Ivan Whillock



SUPPLIES

Wood: basswood—one piece 1-1/2" x 7" x 10"
Tools: scroll saw or band saw; Nos. 3-6mm, 3-16mm,
4-8mm, 5-20mm, 7-6mm, 11-3mm, 11-16mm, and
11-25mm gouges
Wood sealer
Stain of choice, Oak

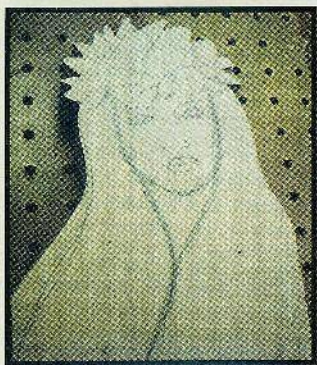


Step 3. Make stop cuts along the inside of the nose at the level of the eyes. Here, the No. 11-25mm gouge gives you the full arc.



Step 4. Angle the top of the face back to the edge of the flowers. Leave the tip of the nose full height. You will carve away some of the drawing, but the stop cuts at the eyes will help you locate the bridge of the nose and where the eyes should be.

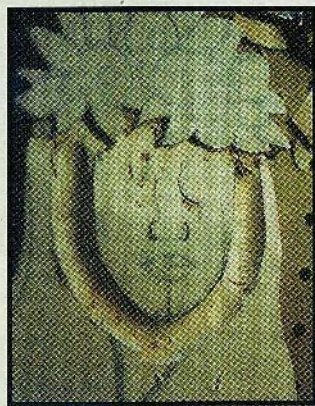
INSTRUCTIONS



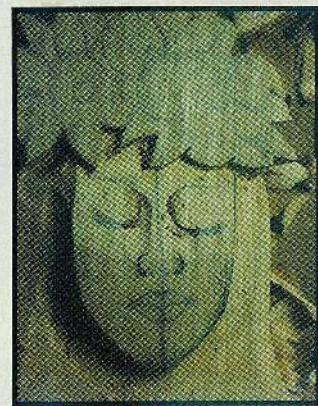
Step 1. Sketch out the outline of the face and flowers. Saw away the waste wood. Mount the carving onto a holding device. Here, I attached the carving to the pegboard with short screws. I then clamp the pegboard to my bench.



Step 2. Make stop cuts around the lower edge of the leaves and flowers. The No. 5-20mm gouge fits the arc of the leaves and allows the cuts to be made with just a few plunge cuts. Angle the forehead into the stop cut about 1/4" deep.



Step 5. Make deep cuts around the face. Use a deep gouge similar to a No. 11-25mm. Make stop cuts at the wings of the nose. Use a tool that fits the arc.



Step 6. Lower the wood of the hair around the face and under the chin. The wood of the face should be at least 3/4" higher than the hair. Sketch in the eye mounds. The bottom edge of the eye mound is about halfway between the eyebrows and the bottom of the nose. Set in the stop cuts for the bridge of the nose. With the No. 11-16mm gouge, make a cut from the wings of the nose to the eye mounds.

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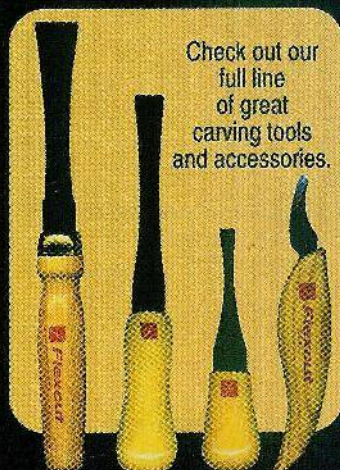
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Step 7. Round the eye mounds from the eyebrows to the line drawn earlier. Try to get a good sense of "roundness" in the eye masses. Blend the cut alongside the nose into the cheeks, making a smooth transition.



Step 8. Make a stop cut at the bottom of the nose and remove all wood around it. Lower the mouth and chin so that the tip of the nose is the highest point. Start rounding the temples back so that the eye mounds can curl back around the side of the face.



Step 9. Deepen the stop cuts around the wings of the nose. Carve smile lines to begin shaping the mound for the mouth. The mouth mound should not be flat. It should round to the smile lines. That way, when you carve the mouth into the mound, it too will be rounded.



Step 10. Make a stop cut at the mouth opening.



Step 11. Remove the wood below the stop cut so that the lower lip edge is behind the upper lip.



Step 12. Carve in the upper lip by making a slanted cut from the cupid's bow to the mouth line.



Step 13. Make a hollowed cut below the lower lip to begin forming the chin. Round the lower lip into the mouth opening.



Step 14. Make concave cuts at the corners of the mouth and carve the masses of the lips.



Step 15. Sketch in the eye openings. Use gouges that fit the shape to make stop cuts at the eye openings. I used the No. 4-8mm gouge here.



Step 16. Round the eyeballs and make stop cuts for the upper eyelids. Be sure to slant the tool toward the eyebrows so that you do not chip the eyelids. The No. 3-6mm gouge works well here.



Step 17. Shape the masses above the eyelid. Notice that the mass above the inside third of the eye is concave and on the outside two thirds the form is convex.



Step 18. Round off the corners of the face and chin. Make stop cuts for the hair next to the neck and lower the wood for the neck. Round the neck and slant it so that the neck is higher where it meets the chin than it is where it meets the chest.



Step 19. Begin blocking in the hair masses. The hair is carved in three stages. The first step done here is to use a wide tool that gives you broad planes to indicate the general flow of the hair. Later, these planes will be refined with smaller tools.



Step 20. Make stop cuts around the flower masses.



Step 21. Carve away the wood so that the flowers stand out from the leaves. Carve the centers of the flowers. My No. 7-6mm gouge fits the shape. When making the stop cuts around the flower centers, be sure to slant the tool away from the center so that you do not undercut and break the center off.



Step 22. Divide the flower masses into petals. Separate the leaves and carve veins into them. Notice that the leaves are lower on the sides to wrap around the head.



Step 23. Carve the hair using a large gouge, such as the No. 11-16mm, and then inside those cuts add smaller detail with the No. 11-3mm gouge. Bend all of your cuts so that you create a rhythmic flow to the hair. Avoid straight lines. Carve the detail of the eyebrows and suggest the irises with a gouge that fits the circle, such as the No. 7-6mm.



Step 24. This carving looks just fine with a clear finish. However, to create more contrast in the hair and the flowers, I sealed the basswood and applied a medium oak stain. It's important to apply a sealer, otherwise the stain will appear darker on the end grain, making the carving look splotchy.

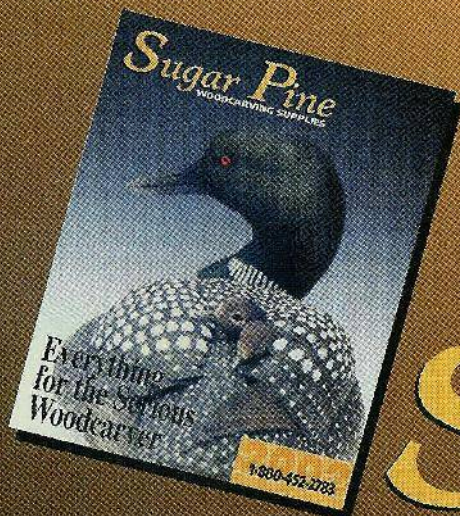
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Pattern Located in Full Size
Pattern Section No. 1!

CARVE AN EGG AND DART PATTERN

by Ivan Whillock



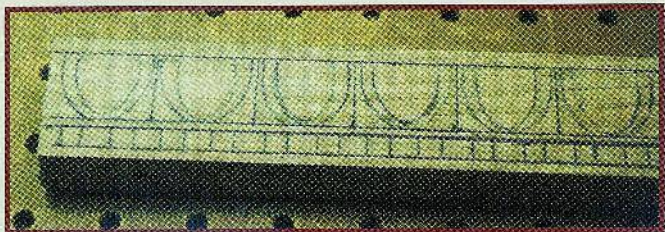
SUPPLIES

Wood: hardwood of choice (same species as the piece of furniture it will decorate)—one piece 3/4" x 1-3/4" x length which suits your project
Tools: Nos. 1-20mm and 2-6mm chisels; Nos. 3-16mm, 4-6mm, 5-20mm, 5-25mm, 7-4mm and 11-16mm gouges; background punch
Stain of choice

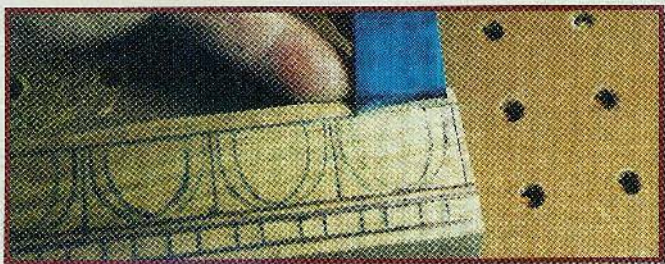
INSTRUCTIONS

Introduction

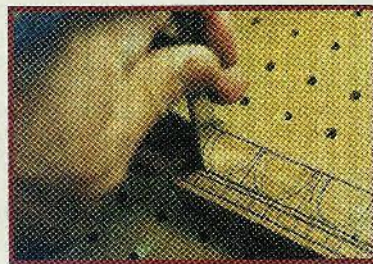
This is a good way to add a special hand-carved touch to your wood projects. The cuts are easy to master because they are tool specific; that is, they take advantage of the shape of the tool. Once you have learned the technique, the carving goes quickly because you can make repeated cuts with the same tool. Modern egg and dart patterns are often commercially machine made, but doing them with hand tools adds a hand-made warmth to them.



Step 1. Trace the pattern onto the wood. Secure the workpiece to your bench. A good method for securing the piece is to attach it to a piece of pegboard (larger than the wood) with short screws and clamp the pegboard to your bench. Another method is to leave extra length on the strip of wood to allow space for a clamp.

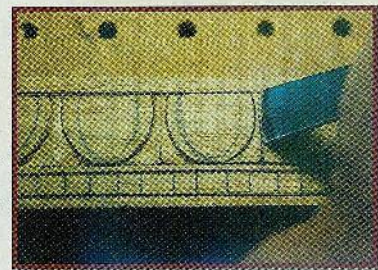


Step 2. Use the chisel to make stop cuts along the straight lines. Tilt the chisel slightly into the carving, away from the edge you want to keep. Be careful with these cuts. You are going with the grain, and plunging the tool too deep can split the wood.

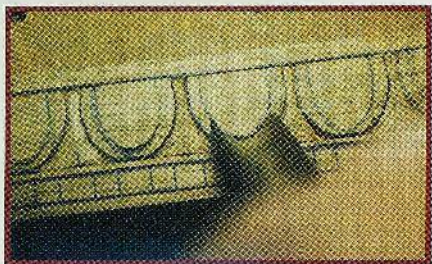


Step 3. After all of the straight lines have been set in, set in the outside arc of each egg with a gouge which fits the arc. In my tool set, it is the No. 5-25mm gouge. **Note:** a variety of tools will fit the arc. My No. 5-25mm gouge cuts the whole arc in one cut. It is possible to use a smaller tool and make that same cut in several passes. Be careful to make the cuts in the same line so that several cuts look like one. It is best not to "whittle" at the edge with tools that do not fit the arc because you can end up with the fuzzies. Experienced carvers do not clean up the fuzzies, they prevent them in the first place by making single-pass cuts with a sharp tool.

Step 4. With the No. 3-16mm gouge, make slice cuts from the top edge of the darts to the stop cut around the outside of the egg. Keep the top edge of the dart sharp and straight.



Step 5. If necessary, use the skew chisel to remove the wood from the corners. You should learn to make this cut with a single pass. Again, don't "whittle" at the carving with choppy nervous cuts.



Step 6. Make stop cuts at the bottom arc of the egg using a tool that fits that arc. In my set, that tool is the No. 11-16mm gouge. Slant the tool slightly toward the center of the egg.



Step 7. Use a gouge (No. 5-20mm) that fits the arc of the inside line of the egg to make stop cuts at those lines.



Step 8. Turning the No. 3-16mm gouge upside down, round the egg into the inside stop cut. Start close to the stop cut, take a small wedge, and then gradually work the wedge wider, rounding the egg form. By working your way back gradually, you will avoid cutting into the band around the egg.



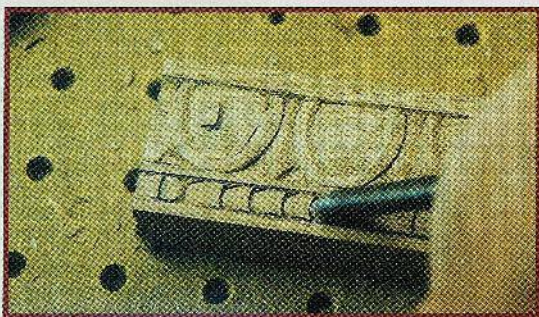
Step 9. Still using the No. 3-16mm gouge turned upside down, put a bevel on the band around the egg that angles from the egg to the dart.



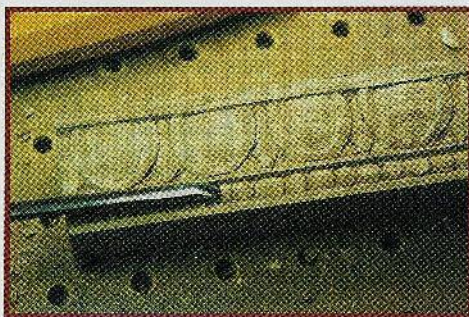
Step 10. With the No. 4-6mm gouge, make the sharp point of each dart.



Step 11. Carve the ball and sausage design by first making stop cuts between the elements.



Step 12. Use a gouge upside down to round off the edges of the ball and sausage elements. It is quickest to make all of the left cuts in one series and then switch hands to do all the right side cuts. For this series of cuts, I used a No. 7-4mm gouge.



Step 13. With the same tool upside down, round off the tops of all elements. If you want, use a background punch to texture the wood at the base of the darts. The added texture emphasizes the carved form. Stain the carving to match the furniture it will decorate.



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CARVE A DACHSHUND

by Ivan Whillock



SUPPLIES

Materials: basswood—one piece 1-1/2" x 3-1/2" x 6-1/2"
Tools: scroll saw or band saw; carving knife; V-tool (optional); palm gouges (optional)
Sealer
Light oak stain
Paint Brush
Black paint

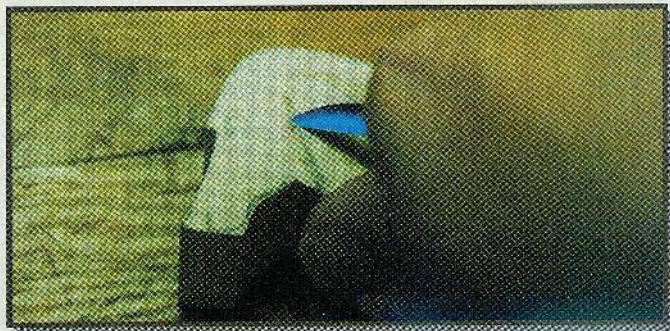
This is a slightly stylized carving of a dachshund. The body, ears and snout are a bit elongated, and the feet are a little larger. The carved facets give the dog a hand-hewn look. To ensure strength in the legs, the grain goes up and down rather than across the body.

This carving is made primarily with a knife. However, carvers who wish to add a V tool and palm gouges will find uses for them.

INSTRUCTIONS



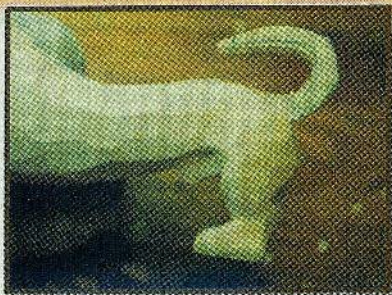
Step 1. Trace the pattern onto the block. Saw away the waste wood from the side view only. There is no sawing on any other view, although you may wish to make a saw cut between the legs.



Step 2. Make a stop cut around the ears. Slant the knife so that the cut angles away from the ears. Do not undercut them at this time. **Note:** if you undercut a form and then lower it, the form shrinks in size. Also, undercutting weakens an edge. Therefore, undercutting, if done at all, is put off until a final stage.



Step 3. Leaving the ears high, remove wood at the dog's face, neck and chest. Also, begin shaping the back and chest. Make a stop cut behind the front leg before you round the chest.



Step 4. Moving to the back, make a stop cut in front of the hind leg, at the tail, and begin shaping the back end of the dog. Leave the tail fairly thick for now. Thinning it will weaken it, so leave that for a final step.

Keep the chest fairly thick behind the front legs and thin the body as it reaches the hind quarters. The body thickens again at the back legs. Be sure to remove enough wood at the corners to have a fully rounded body.



Step 5. A center line drawn down the back helps you match the sides.



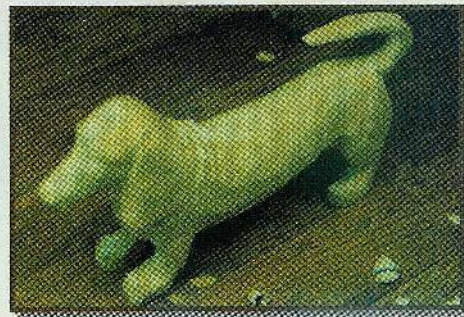
Step 6. Carve the snout fairly thin. Again, use the center line to help you get the two sides equal.



Step 7. As you thin the face to make the ears stand out, continue carving the snout, keeping a flattened plane for the eyes. That flattened plane is necessary to make the eyes face forward. Sketch in the eyes so that you can tell whether the plane faces properly forward. Square up the plane as needed.



Step 8. Carve in the eyes by making stop cuts around the openings and rounding the ball in the eye openings. Notice the location of the eyes and the taper of the snout and head.



Step 9. Separate the legs and round them. The paws are kept quite large. The toes are separated by V cuts. The chest suggests a V where it meets the legs. The neck joins the chest at a V shape as well. Make a stop cut for the nose and show the mouth opening.



Step 10. Round the hind legs and carve the paws. Notice the hollow just in front of the hind leg. This helps to add shape to the body. When all else is done, narrow the tail to its final thickness. Since part of it is cross grain, be sure to work it down gradually, working from the tip to the body. If you'd like, include some wrinkles at the front shoulder.



Step 11. Paint the eyes and nose black. Seal the wood and give the dog a coat of light oak stain. You can, of course, give the dog any markings you wish by using oil or acrylic paint.

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Pattern Located in Full Size
Pattern Section No. 2!

HOME SWEET HOME WALL CLOCK

by Dirk Boelman of The Art Factory and sawn by Janet Rancour



SUPPLIES

Wood: wood of choice—one piece $1\frac{1}{2}$ " x $7\frac{3}{4}$ " x $9\frac{3}{4}$ "

Tools: scroll saw with assorted blades; drill with bits including a $2\frac{3}{8}$ "-Dia. Forstner bit (optional); needle files

Temporary-bond spray adhesive

Sandpaper, assorted grits

Finish of choice

Hanger of choice

$2\frac{3}{4}$ "-Dia. "Vintage Floral" clock insert*

*Available from The Art Factory, P.O. Box 701, Platteville, WI 53818; 1-800-566-6394.

INSTRUCTIONS

Adhere the pattern to the wood with spray adhesive. Drill blade entry holes and make all cuts, beginning with the interior and working toward the perimeter. **Note:** the $2\frac{3}{8}$ "-Dia. clock mounting hole can be carefully sawn on a scroll saw or drilled with a Forstner bit. If you choose to drill the opening with a Forstner bit, make this hole prior to sawing out the design.

Remove paper pattern and touch up any imperfections with needle files, sandpaper, etc. Apply finish of choice. We used clear lacquer spray. Install the clock movement, hang on your wall, and enjoy!



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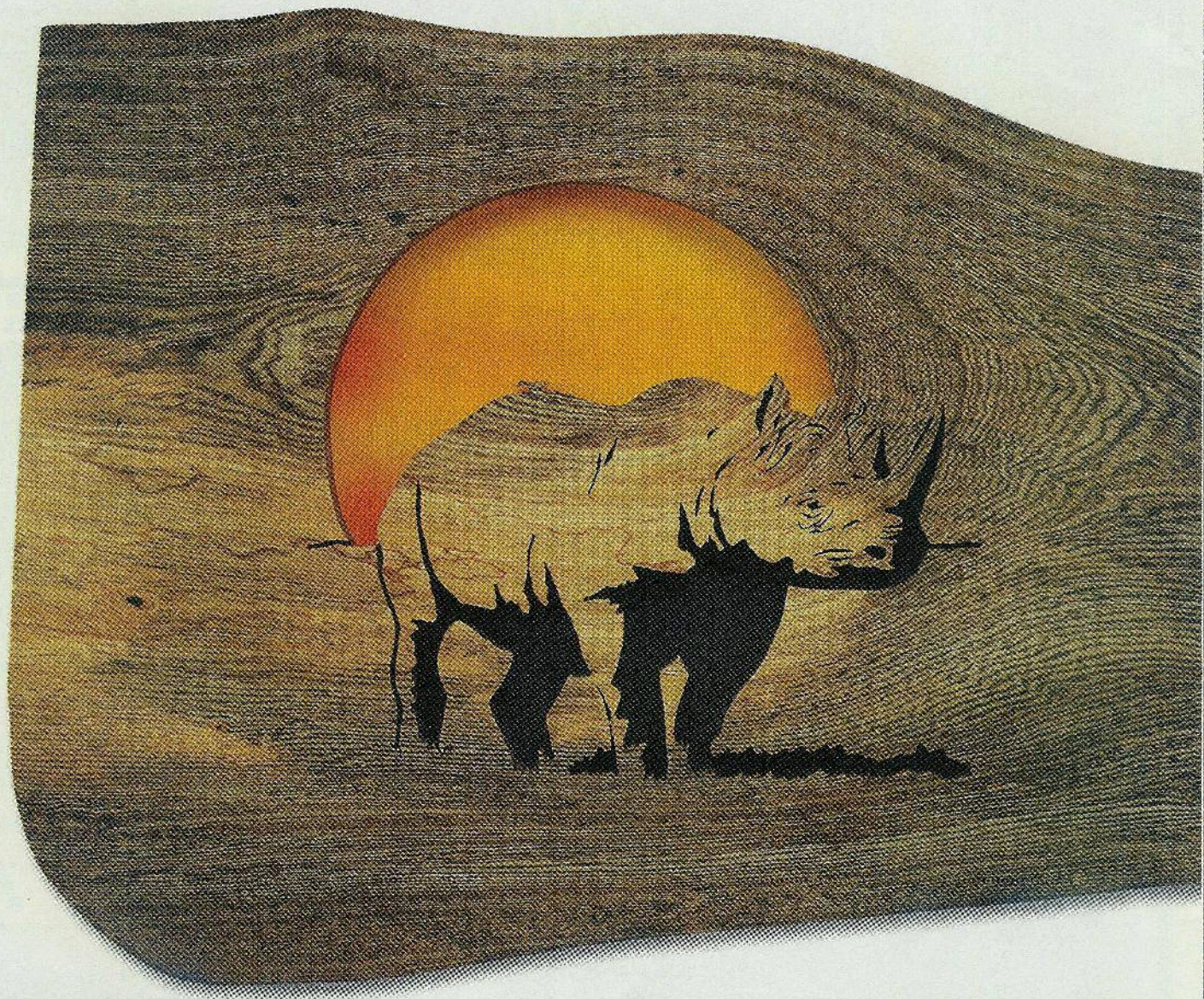




Pattern Located in Full Size
Pattern Section No. 1!

RHINOCEROS

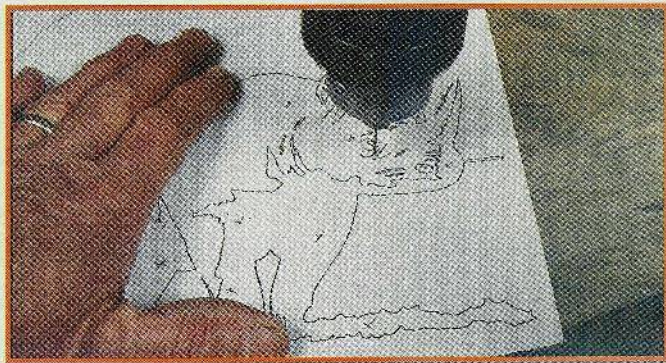
by George Ahlers and sawn by Wes Demarest



INSTRUCTIONS



Step 1. Select your wood and transfer the pattern, affixing it with spray adhesive.



Step 2. Bore blade entry holes in the waste areas of the pattern using the No. 58 drill bit.

SUPPLIES

Wood: wood of choice—one piece 1/4" to 3/4" x 11" x 12" **Note:** the dimensions listed are the minimum required for this pattern. The wood selected here is a piece of Cuban laurel purchased in Florida several years ago.

Tools: scroll saw with Olson No. 2R blades; drill with No. 58 bit

Temporary-bond spray adhesive

Sandpaper, assorted grits (including 120 - 320 grits)

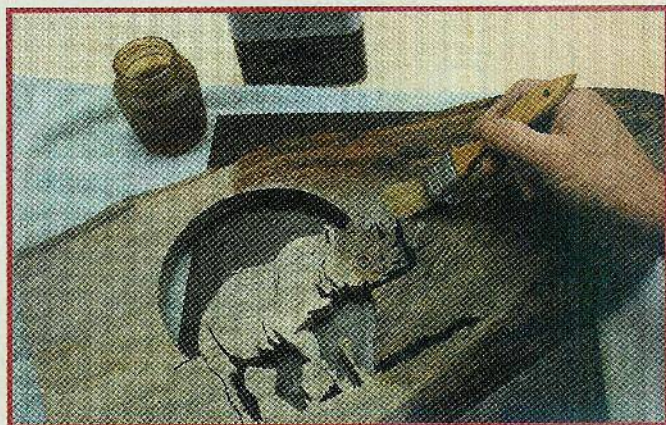
Watco Danish oil or finish of choice

Backer of choice

Sawtooth hanger



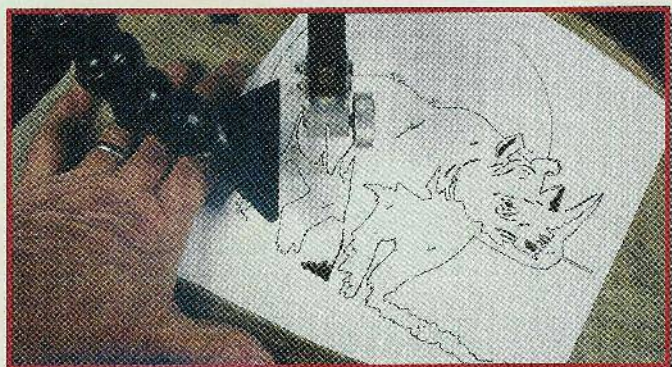
Step 4. Remove the pattern and all glue residue. Sand thoroughly starting with 120 and working up to 320 grit.



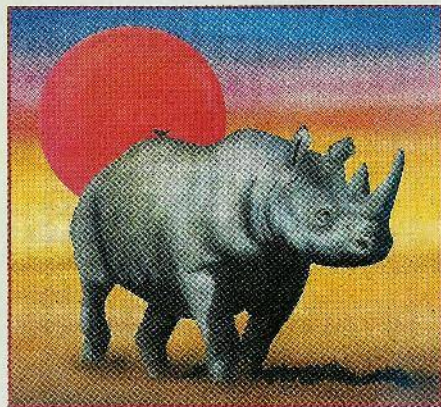
Step 5. Following the manufacturer's instructions, apply finish of choice.



Step 6. Add backer of choice to the rear and attach sawtooth hanger. Hang and enjoy!



Step 3. Cut out the pattern. We found the Cuban laurel to be hard and dense, requiring a slower blade speed.



The original painting by George Ahlers from which the pattern was derived.



by Gary Hall

Patterns Located in Full Size
Pattern Section No. 1!

A DUCKY NAPKIN HOLDER



Introduction

As I am working on this project, income tax time is fast approaching. This napkin holder was handy for holding the tissues I was using to dry my tears. The cattail toothpick holders were an afterthought.

It's a basic Intarsia project with a couple of extra pieces to make. It can all be done with a scroll saw and drill press. You could even use a hand drill if you are real steady.

I made a second version of this project entirely from oak. That version would look good in a kitchen with oak cabinets, for example. In fact, this project could be made out of any type of wood to enhance a particular kitchen decor. The choice is yours!

INSTRUCTIONS

Making the base

Transfer the base pattern to the wood and cut it to shape. I cut the edge at a 15 degree angle. Set the table of your saw at a 15 degree angle and follow the line (see **Fig. 1**). For cutting the softer (western red cedar) wood, I like a No. 7 double reverse tooth blade. If you are making the project from a harder wood (such as oak), I like a No. 9 precision skip tooth blade. **Note:** I will send you a free sample of these blades if you wish. If interested, please contact me at the

Canadian address listed at the end of this article. If you already have a blade you prefer, by all means use it. The above are only my suggestions.

Bore a 1/8"-Dia. pilot hole through the wood where marked (+), then countersink (3/8"-Dia.) each hole on the bottom of the base for the screw heads (see **Fig. 2**). Drill a 7/32"-Dia. x 1/2" deep hole where indicated to receive the cattails. Finally, bore two 1/8"-Dia. x 1/2" deep holes, side to side, in the four places where marked. Each set of holes should be far enough apart to make a slot 3/8" long and 1/8" wide which will receive the leaves. To cut the slot, bore a hole at each end and one in the middle, then move the wood back and forth on the drill bit to make the cut.

Making the ducks

First, make a copy of the pattern to use for the second duck; then transfer the two patterns to the selected stock. Actually, you can use the transfer method you like best; personally, I prefer making a template of each pattern piece and then tracing it onto the wood (see **Fig. 3**). Making sure that the blade is square to the table, carefully cut out the pattern pieces, staying right on the line. This is an important step and will greatly affect how the project will fit together. If you are one of those poor souls who couldn't follow a line with a snow plow, practice, practice and more practice is your only hope.

SUPPLIES

Wood: dark western red cedar—one piece 3/4" x 3" x 5"; medium western red cedar—one piece 3/4" x 1" x 4"; medium dark western red cedar—one piece 3/4" x 1" x 2"; light western red cedar—one piece 3/4" x 6" x 3"; pau amarillo—one piece 3/4" x 1" x 2"; aspen—one piece 3/4" x 2" x 3"; spruce—one piece 3/4" x 2" x 11"; oak—one piece 3/4" x 7" x 11" (for the base); oak plywood—two pieces 1/4" x 5-3/4" x 10-3/4" (for the backer boards); black walnut—one piece 3/4" x 3/4" x 12" (for the cattails); poplar—one piece 3/4" x 3" x 7" (for the leaves); plywood—assorted pieces 1/8" thick (for raising the ducks)

Tools: scroll saw with No. 7 double reverse tooth blades and No. 9 precision skip tooth blades (optional); drill press with bits, including 1/8"-Dia., 7/32"-Dia., and 3/8"-Dia. bits; pneumatic drum sander* and various sanding and shaping tools of choice

Temporary-bond spray adhesive

3/8"-Dia. black walnut dowel (for the eyes)

Two 3/16"-Dia. dowels 4" long

Two 3/16"-Dia. dowels 4-1/2" long

Wood glue

Four No. 6 x 1-1/2" wood screws

Finish of choice

*Available from Garnet Hall, Box 549, Stoughton, SK, Canada S0G 4T0, (800) 729-2473; or from PS Wood Machines, 3032 Industrial Blvd., Bethel Park, PA 15102, (800) 939-4414.

When you have the pieces cut out, assemble them and check for fit. I describe a technique in my book that can be very helpful with the fitting. The pieces don't have to fit airtight; if you are within a saw kerf, it will look fine. Drill 3/8"-Dia. holes for the eyes 1/4" deep. I used a piece of a 3/8"-Dia. black walnut dowel for the eyes. Raise the two pieces marked (R) 1/8" with scrap plywood.

Start shaping the pieces. Remember, try to make it look like a duck. One time a carver was asked, "How do you carve a duck?" "Simple," he said, "take a block of wood and cut away everything that doesn't look like a duck." Well, it's the same here. Sand away everything that doesn't look like a duck. Make sure to have dust protection (practice safe woodworking). Woodworking is a hobby, breathing isn't. Wear a good quality dust mask and have your tools hooked up to a dust collector.

Any sanding tool will work. I like using a small pneumatic drum sander. It's like sanding on air, which gives a smooth contour. I use the sander in a flex shaft which I feel gives me more control over the shaping process (see Fig. 4). The finish sanding can be done with a flap sander which will save a ton of handwork. I don't sand any finer than 220 grit anymore. I don't feel it's necessary, as it just makes more dust to breathe in.

Once the ducks are shaped and sanded to your liking, cut out the backboard. The back will be visible, so I think it would look better if the back was made exactly the way I do it. In other words, cut the back to the size of the project and chamfer the edges rather than making the back a bit smaller and leaving the edges square (see Fig. 5). Attach the two ducks to the base with the No. 6 x 1-1/2" wood screws and glue.

continued on page 50

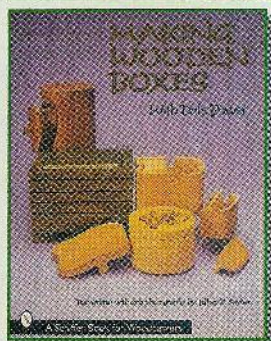
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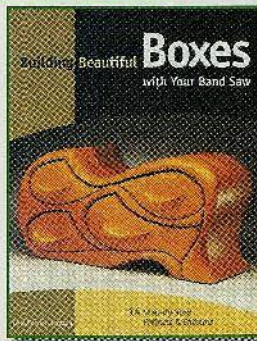
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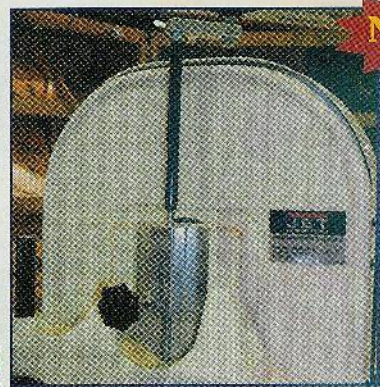
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Making the leaves

The leaves are easy to make. From 3/4" material, cut two profiles each of "A1" and "A2" (located in the Full Size Pattern Section). Lay these pieces on their side, trace shape "B" on each, and cut out (see Fig. 6). Sand and shape the leaves smooth, then sand the bottom end of the leaves to fit the slots in the base.

Making the cattails

The cattails are made from 5/8" blocks 3" long. Drill a 3/8"-Dia. hole 2" deep in one end and a 7/32"-Dia. hole 3/4" deep in the other end. The 3/8"-Dia. holes will be the toothpick holders. Cut off the four corners to start the rounding (see Fig. 7). Finish shaping the blocks round with a sander. The cattail stems are 3/16"-Dia. dowels. Two are 4" long and the other two are 4-1/2" long. The different lengths look better, I think.

Finishing

Any finish will work here. Apply three coats, sanding between each. The two ducks and the base can be finished as one piece. I found it easier to finish the leaves and the cattails separately. Once the finishes have dried, glue the leaves and cattails into the base and you're done.

Overall, this is a fairly simple project. It should be a good craft fair seller as well. I think it's a project that will look good on any table.

Garnet Hall has written a terrific book about intarsia. Entitled *The Art of Intarsia*, it features 20 great projects, and tons of helpful tips and info. It is available from PS Wood Machines, 3032 Industrial Blvd., Bethel Park, PA 15102; (800) 939-4414. Price is \$17.95 plus \$4.50 (S&H)/U.S. or it can be ordered directly from Garnet Hall at Box 549, Stoughton, SK, Canada S0G 4T0, (800) 729-2473.



Fig. 1. Saw the base to shape. Bevel the edge at 15 degrees.

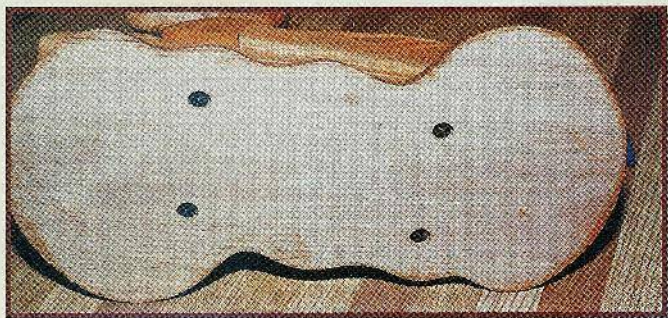


Fig. 2. Bore pilot holes for the mounting screws and countersink them from the bottom.

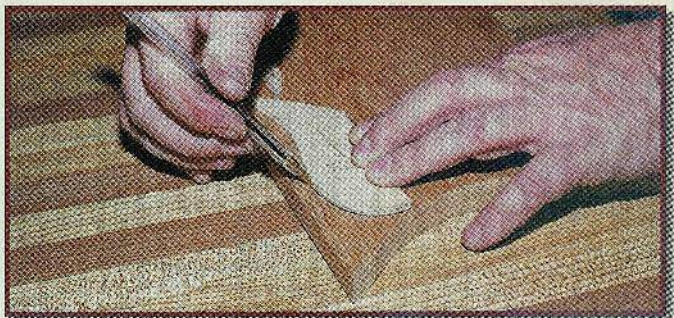


Fig. 3. Transfer the pattern to the selected stock. I like to make templates of each individual piece. That way I can easily position them to take best advantage of the wood grain.



Fig. 4. Shape the pieces. I like using a pneumatic drum sander in a flex shaft tool for this operation.



Fig. 5. On a project such as this, it looks much nicer to bevel the backer board away from the pattern pieces.



Fig. 6. Cut the leaves to shape. These are basically a compound cut. First saw out either profile "A1" or "A2", then saw out Profile "B" on each.

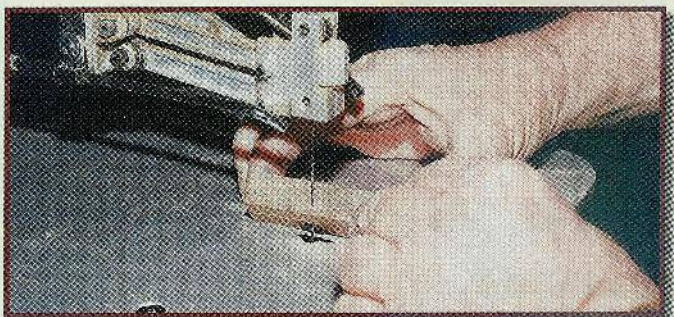


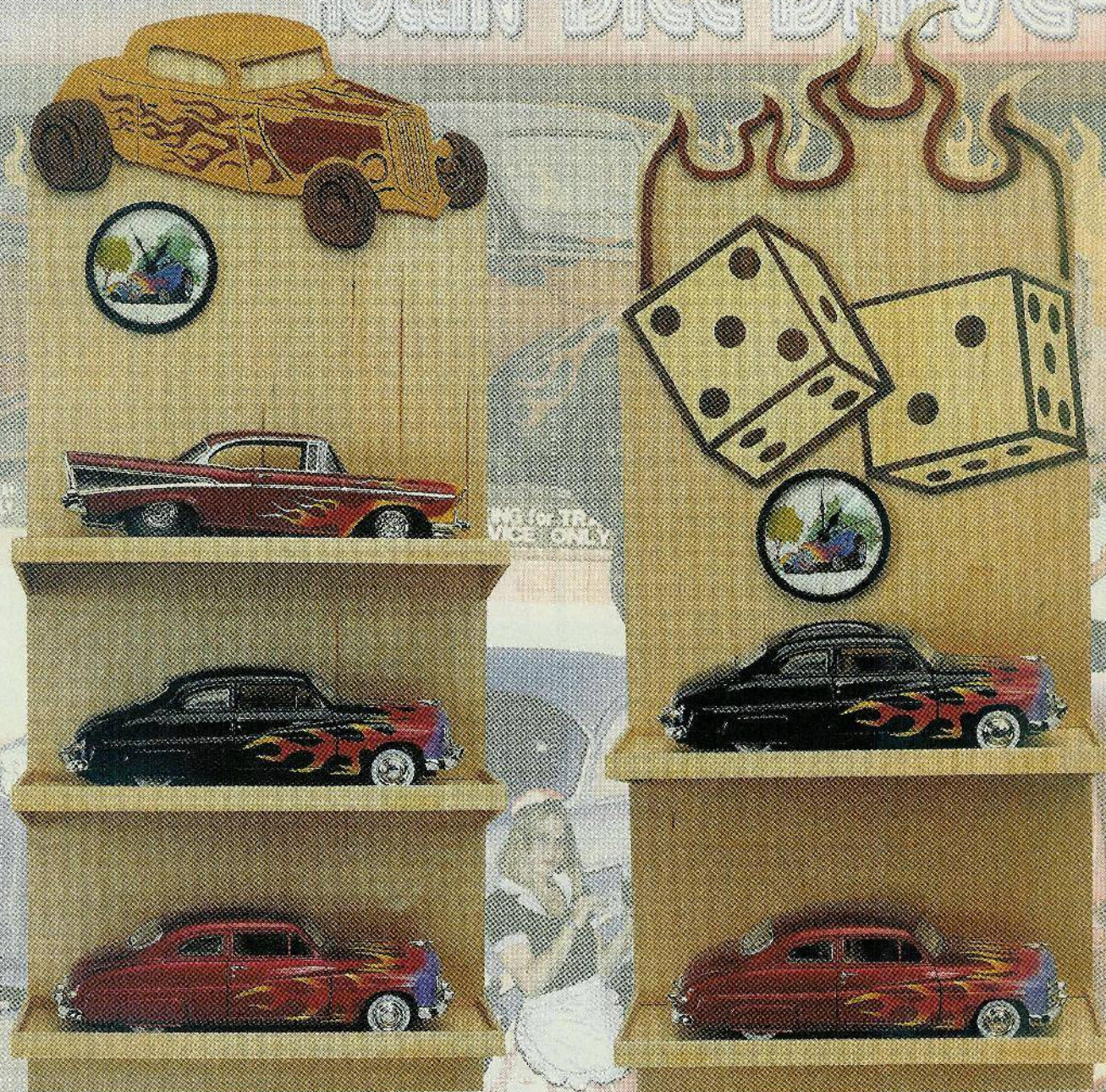
Fig. 7. Cut the tops of the cattails to shape, then sand them round.



Patterns Located in Full Size
Pattern Section No. 2!

HOT ROD SHELVES

designed by Kelly Albertson and sawn by Wes Demarest



INSTRUCTIONS

Make the backers and single wood overlays

Make photocopies of the patterns, saving the originals for reference (and later use). Transfer the backer patterns to the selected stock and saw them to shape. Referring to the Plan View Drawings lay out and cut the dados. Bore the 2-3/8"-Dia. holes, which will receive the clock movement, where located on the patterns.

Transfer the patterns for the flame and fire overlays and saw them to shape. Thoroughly sand all pieces.

Make the shelves

The shelves for both the flaming dice and hot rod are all made in the same manner. Referring to the supplies list for each shelf, size the selected stock as indicated. The shelf and front pieces are simply rectangles, so they are now ready for assembly. However, you still need to further shape the shelf brackets. The outer end of each bracket is 1/2" wide while the inner end is 1-1/4"; cut these pieces to shape (see the Plan View Drawings). Thoroughly sand all pieces. Assemble the shelves by gluing the brackets and fronts in place as shown in the Shelf Assembly Drawing.

continued on page 52

SUPPLIES

Tools: scroll saw with Olson Nos. 2/0 and 2R blades for the marquetry and Steebar PTT 2 for the backer; drill press with bits including a 2-3/8" dia. Forstner bit* and Nos. 71 and 58 drill bits; router with 1/4" straight bit
Sandpaper, assorted grits through 320 grit
Temporary-bond spray adhesive
Cyanoacrylate (CA) glue
Minwax Rub-on polyurethane
Sawtooth hanger

FLAMING DICE SHELF MATERIALS

Wood: *Baltic birch plywood*—one piece 3/4" x 10" x 24" (for the backer), two pieces 1/4" x 4" x 9-3/4" (for the shelves); *soft maple or basswood*—four pieces 1/8" x 1-1/4" x 3-1/4" (for the shelf brackets), two pieces 1/8" x 1/2" x 10" (for the shelf fronts); *padauk*—one piece 1/4" x 10" x 6" (for the flame overlay); *aspen*—one piece 1/8" x 6" x 6" (for the right hand die pattern piece), one piece 1/4" x 6" x 6" (for the left hand die pattern piece); *walnut*—one piece 1/8" x 6" x 6" (for the right hand die inlay piece), one piece 1/4" x 6" x 6" (for the left hand die inlay piece)
Hot Rod clock, 72mm # ET-72MM-27*

HOT ROD SHELF MATERIALS

Wood: *Baltic birch plywood*—one piece 3/4" x 10" x 24" (for the backer), three pieces 1/4" x 4" x 9-3/4" (for the shelves); *soft maple or basswood*—six pieces 1/8" x 1-1/4" x 3-1/4" (for the shelf brackets), three pieces 1/8" x 1/2" x 10" (for the shelf fronts); *pau amarillo*—one piece 1/4" x 5" x 9-1/2" (for the hot rod pattern piece); *padauk*—one piece 1/4" x 5" x 9-1/2" (for the hot rod inlay piece); *walnut*—three pieces 1/2" x 2" x 2" (for the fire overlay pieces)

Hot Rod clock, 72mm # ET-72MM-27*

*Hot Rod Clock 2-3/8"-Dia. (#ET-72mm-27) and Forstner Bit (#PRO-2375) for this project are available from Steebar Corp. P.O. Box 980, Andover, NJ 07821. Phone (973) 383-1026. Visit our website at www.steebar.com.

Make the marquetry overlay pieces

The dice and hot rod are both marquetry pieces which are glued in place on the backer boards. Marquetry of this type is really not all that difficult to do, however, the instructions can seem somewhat involved. Both the hot rod and dice pieces are made in the same way. Transfer the marquetry overlay patterns to the wood chosen for the pattern pieces, in this case the pattern piece is pau amarillo for the hot rod and aspen for the dice.

Stack the inlay piece beneath the pattern piece. Bore blade entry holes at each of the areas to be inlaid. These holes should be on the inside of the pattern lines at an angle approximately the same as the tilt of your saw table. If done correctly the drill bit should pass through the top layer of wood in its waste area and then through the outer waste area of the inlay piece. Tilt your saw table approximately 4 degrees to the left. Insert the blade and saw out the inlay shapes in the directions indicated on the pattern (see the Marquetry Cutting Drawing). **Hint:** stack

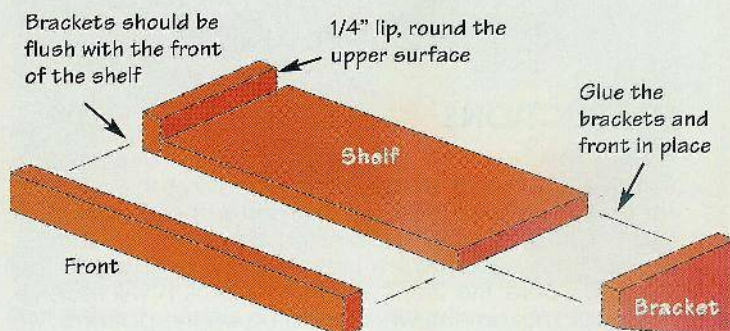
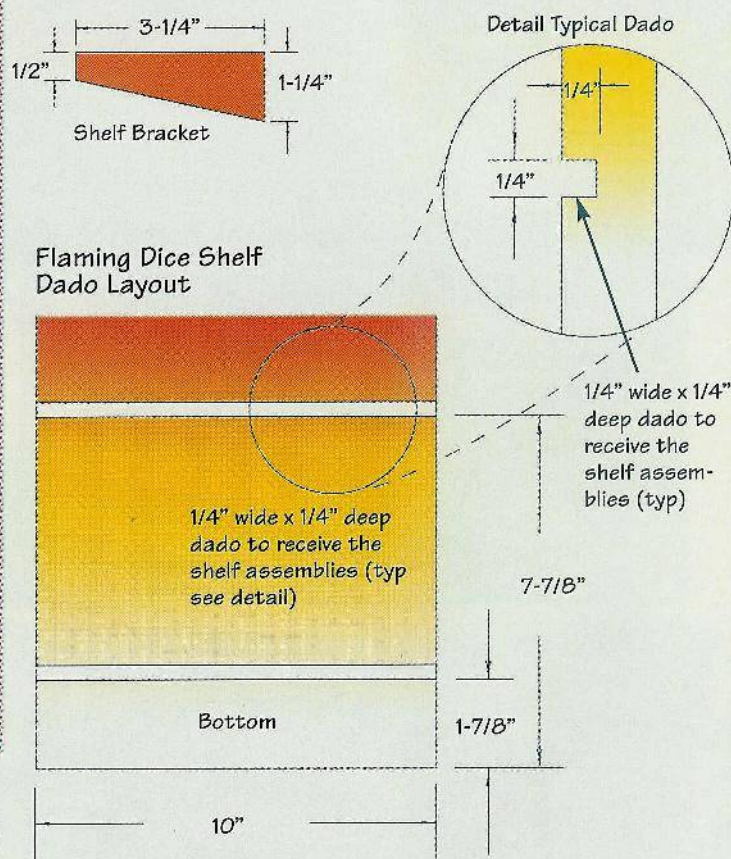
some scrap pieces of the same thickness as the stock you are working with and make test cuts until you are satisfied with the results, that way you can adjust the tilt of your saw table as necessary.

Discard the waste, apply a little CA glue to the edges and push the inlay pieces in place. The goal here is a snug fit. It's all right if the inlay piece is slightly proud of the pattern piece, it can easily be sanded flush. Thoroughly sand the marquetry pieces.

Final assembly and finishing

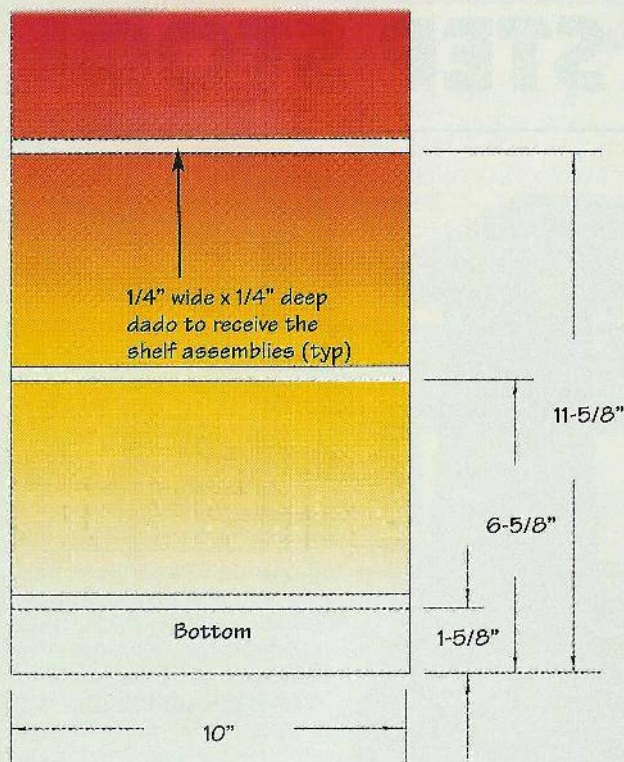
Glue the overlay pieces to the backers as indicated on the patterns. Glue and screw the shelves into the dados. When the glue has set, finish sand the shelves and wipe off any excess dust. Apply several coats of Minwax Rub-on polyurethane, following the manufacturer's instructions.

Plan View Drawings



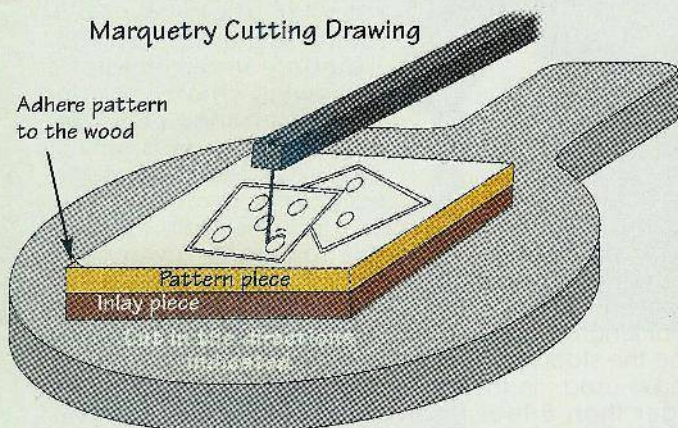
Shelf Assembly Drawing

Hot Rod Shelf Dado Layout (and Bonus Flame Pattern)

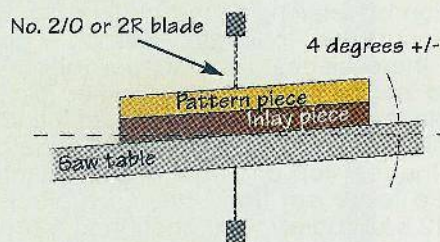


Marquetry Cutting Drawing

Adhere pattern to the wood

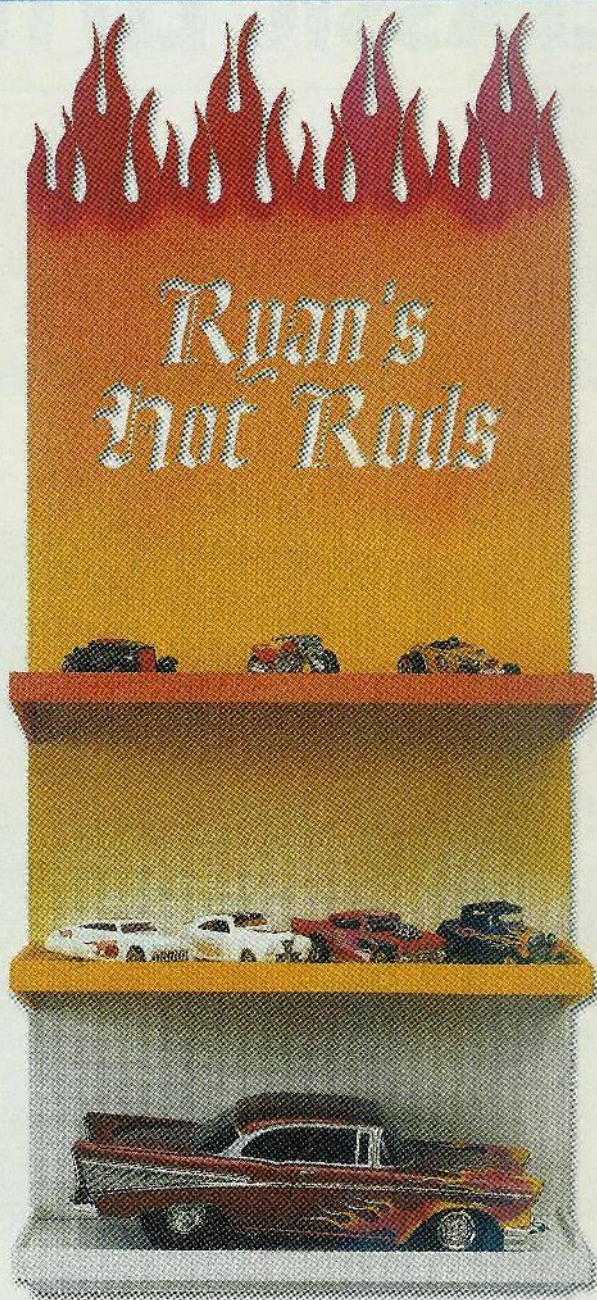


Tilt saw table approx. 4 degrees to the left (see detail below)



Marquetry Cutting Detail

BONUS PATTERN!



MATERIALS

Wood: Baltic birch plywood—one piece 3/4" x 10" x 24" (for the backer), three pieces 1/4" x 4" x 9-3/4" (for the shelves); soft maple or basswood—six pieces 1/8" x 1-1/4" x 3-1/4" (for the shelf brackets), three pieces 1/8" x 1/2" x 10" (for the shelf fronts)

Look for this bonus shelf pattern in Full Size Pattern Section No. 2. Construction is pretty straight forward, there is no marquetry here, just cut the backer to shape and lay out the desired letters (provided) to spell out anything you want. The shelf dados are the same as for the Hot Rod Shelf and of course the shelves are constructed in exactly the same way as the others.

CLASSIC LITTLE STEP STOOL

by Peter Brylinski



SUPPLIES

Wood: clear pine—two pieces $\frac{3}{4}$ " x 11" x 11-11/16" (for the sides), one piece $\frac{3}{4}$ " x 11" x 13-3/8" (for the step), one piece $\frac{3}{4}$ " x 6-1/4" x 16" (for the top), two pieces $\frac{3}{4}$ " x 2-3/8" x 13" (for the stretchers)

Tools: table saw with miter gauge and sliding cross cut table; jointer (optional); band saw, jig saw or scroll saw; marking gauge; compass; spindle sander or drill press with drum sander; router with 1/4"-Dia. roundover bit; hand drill; flathead screwdriver; block plane

Sandpaper, 80 and 120 grits

Eight No. 4D finish nails

Twelve No. 8 or No. 10 x 1-3/4" brass oval head wood screws

Circular templates (one 3-1/2" radius and one 6" radius)

Batten (approximately 16" long)

Yellow woodworker's glue

Wood putty

Shellac or finish of choice

A simple design that is easy and economical to make!

Introduction

A little step stool is sometimes the most convenient piece of furniture to have around the house. That top shelf is always just inches out of reach. The light bulb that needs replacing must have been installed by someone just a little taller than yourself. If you were only a few inches taller, you wouldn't have to drag that bulky stepladder in from the garage, or be tempted to boost yourself up on something that wasn't designed for that purpose. At times like these this step stool is the perfect solution, high enough to give you the needed lift, but small enough to tuck out of the way in a corner or closet. Step stools are a favorite among small children, allowing them to do things on their own, like washing hands, brushing teeth, or even raiding the cookie jar.

This step stool requires only six pieces to make and is perfect for a weekend project. It is designed to be easily constructed from commonly available 1 x 12 pine. If clear pine is used, a 5-foot length of wood will be enough to make one stool. Since the stool requires only short pieces, No. 2 pine can also be used. In this case select a piece of 1 x 12 pine longer than 5 feet to give yourself room to cut the required short pieces from in between any major knots or imperfections in the board.

INSTRUCTIONS

First cuts

Begin construction by referring to the cutting diagram and rough cut four pieces to length. **Hint:** it's a good practice to cut these pieces a little longer (about 1") than the finished length. If you have a jointer, joint an edge on each piece perfectly straight and use the table saw to rip cut the pieces to finished width (see the cutting diagram). The top step and front and rear stretchers are designed to be cut from the same piece of wood. The 1 x 12 is just barely wide enough to make all three pieces, so cut the 6-1/4"-wide top step first and if necessary the stretchers can be slightly narrower than

the 2-3/8" shown on the drawing.

After the pieces are cut to width, use the table saw to cut them to the finished length. Use the miter gauge or a sliding cross cut table to accurately square one edge (see Fig. 1) and set the rip fence to cut the side pieces and bottom step to finished length. Use an auxiliary fence with a stop block on the miter gauge to cut the stretchers to finished length (see Fig. 2). Again, it is a good idea to leave the stretchers about 1/16" long at this time, their exact fit can then be checked after the rest of the stool is assembled.

Layout

With all the parts cut to finished width and length, you are ready to lay out the side pieces for the dadoses, circular cuts, and screw and nail positions (see the Plan View Drawings). **Hint:** when figuring where the dadoses go, be sure to make a right side and a left side, as they will be mirror images of one another.

To lay out the dadoses you can use a pencil and square or a marking gauge (see Fig. 3). To lay out the circular cuts, it is best to make two half-circular patterns from 1/4" plywood or cardboard. Use a compass to make one with a 3-1/2" radius that forms the stool's feet and another with a 6" radius that forms the curve between the steps. These patterns can then be positioned on the side pieces at the dimensions shown in the drawing and the cuts to be made are marked with a pencil (see Fig. 4).

You should also lay out the position of the dadoses and screw locations on the top piece. **Note:** the screws at the front of the top step are positioned differently than the screws at the back of the step to account for the 1/2" overhang at the step's front edge.

To find a pleasing arc for the front stretcher, bend a thin strip of wood called a batten along the aprons' length and trace along it with a pencil. An extra pair of hands makes this easy to do, but if you don't have a helper, nail the stretcher down to the workbench through the section that will be cut off. Install finish nails into the bench at the bottom corners of the stretcher to support the batten at the ends as you bend it up in the center (see Fig. 5).

Cut the dadoses

Proceed by cutting the 3/4" wide by 3/16" deep dadoses in the sides and top. Use a dado blade set up to cut 3/4" wide in the table saw. Cut the dadoses in the side pieces before any of the curved cuts are made. With the blade set to cut exactly 3/16" deep, position the rip fence 4-1/4" from the blade and observe your layout marks to be sure you make the cuts in the proper place. Make the cut by guiding the wood along the rip fence (see Fig. 6). While the dado blade is still set to cut 3/16" deep, reposition the rip fence to be 3/4" from the blade and use the miter gauge and rip fence together to cut the dadoses in the top step (see Fig. 7). If you do not have a dado blade, these cuts can be made by making repeated passes over a regular saw blade and moving the fence slightly on each pass.

Cut the curves

Next, make all of the curved cuts. A bandsaw is best for this, but a hand-held jigsaw or scroll saw can also be used. Cut just up to, but leave, the pencil lines. Smooth the saw cuts with whatever tools you have available. A spindle sander is great, but a drill press mounted drum sander or files and sandpaper will also get the job done.

Round over all edges of the top step as shown in the



Fig. 1. A sliding cross cut table is used to accurately square off the first end of the side piece. A regular miter gauge can also be used.

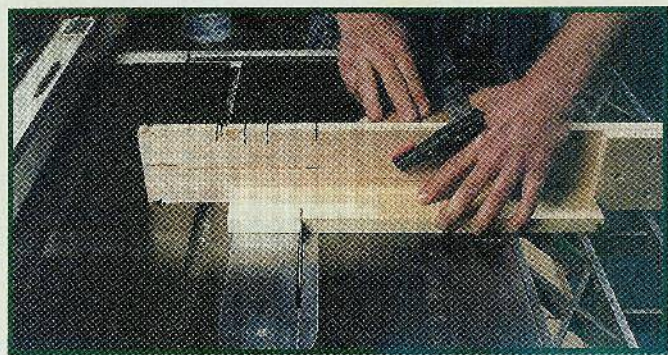


Fig. 2. Narrow pieces like the stretchers cannot be safely cut to length using the rip fence as a guide. Here, they are shown being cut to length using the miter gauge with an extended auxiliary fence and stop block.

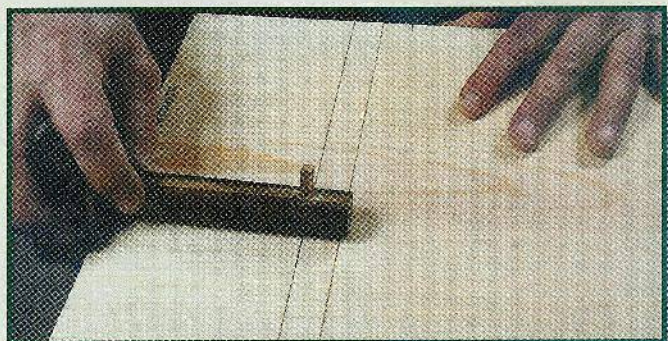


Fig. 3. Using a marking gauge to lay out the dado positions severs the wood's fibers and helps the dado blade cut without splintering.



Fig. 4. To draw the curves, a circular pattern is lined up to the layout marks and its shape is traced with a pencil.

continued on page 56

continued from page 55

drawing. This can be done with a router using a 1/4" roundover bit set to cut slightly less than a full radius, or the edges can be rounded by hand with a block plane and sandpaper.

Drill screw holes

Drill and countersink the two sides and the top step for the No. 8 x 1-3/4" brass oval head screws that hold the dado joints together. Center-punch the locations you marked earlier and countersink the holes just deep enough so the screw heads finish up just below the wood's surface. A drill press is preferred for this, but a hand-held drill can also be used.

Sand

Sand all parts smooth before assembling the stool, but leave the edges or corners crisp. The edges are not sanded until after the stool is put together. This prevents any gaps from showing at the joints.

Assemble

Begin to assemble the stool by gluing and screwing one side and then the other side to the bottom step. This is easiest if you hold the bottom step in a vise as you work (see Fig. 8). Use yellow woodworkers glue and drive the screws directly into the bottom step without drilling pilot holes, as the soft pine will easily accept the screws. Next, attach the top step to the sides. You may have to push or pull the side pieces slightly to get them to fall into the dados in the top step, but if all your cuts are accurate, the stool will go together nice and square. Glue and screw the top step the same as the sides. The aprons are attached next. They should fit snugly between the two sides. This helps prevent the stool from racking and adds strength. Check their fit carefully and trim them as needed. The aprons are set back 3/8" (see the Plan View Drawings). Make marks 3/8" in from the edge on the bottom of the bottom step to help position them. Apply glue only to the apron's top edge (not on the ends) and clamp them in position. After the glue sets up, remove the clamps and install the finish nails at the apron ends. The nails should be set below the wood's surface and filled with a suitable wood filler or putty.

Finish

Give the stool a final sanding after it is assembled. Sand the filler covering the nail holes. Now you can soften the edges by hand sanding. Sand the edges at the stool's feet, this will help prevent chipping if the stool is dragged across the floor.

Protect the stool with a finish of your choosing. Perhaps you would like it to match your kitchen cabinets or other feature in your home. It can be finished as desired. The stool shown in the photograph is finished with amber shellac to give it a mellow yellow appearance that should age nicely.

Enjoy your step stool and keep an eye on that cookie jar!

Cutting Diagram

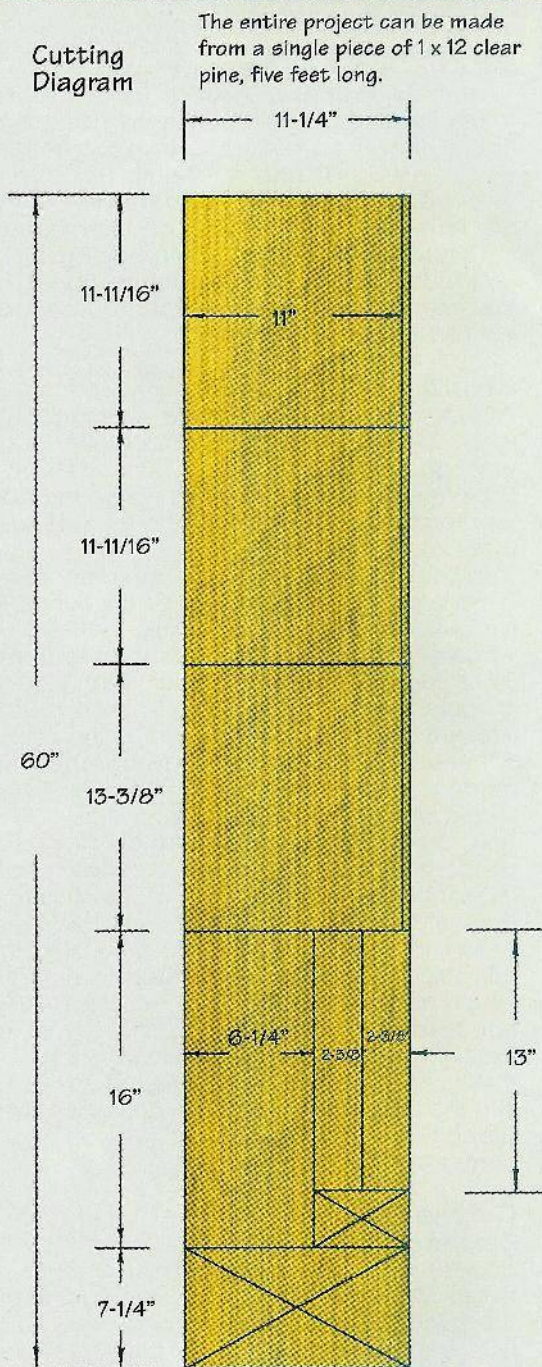


Fig. 5. Finish nails are used as a third hand to assist bending a batten as you trace the curve for the front stretcher.

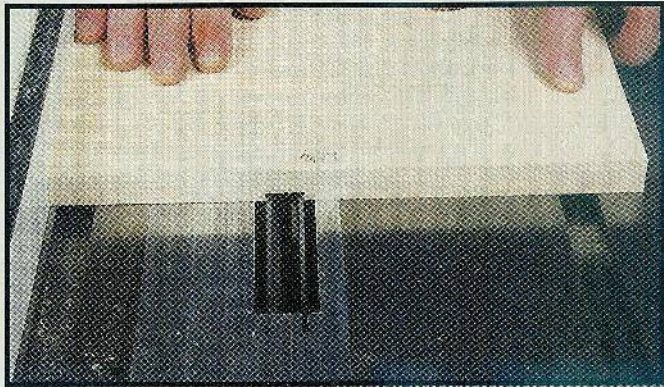


Fig. 6. The dados are cut in the side pieces using only the rip fence to guide the wood.

Plan View Drawings

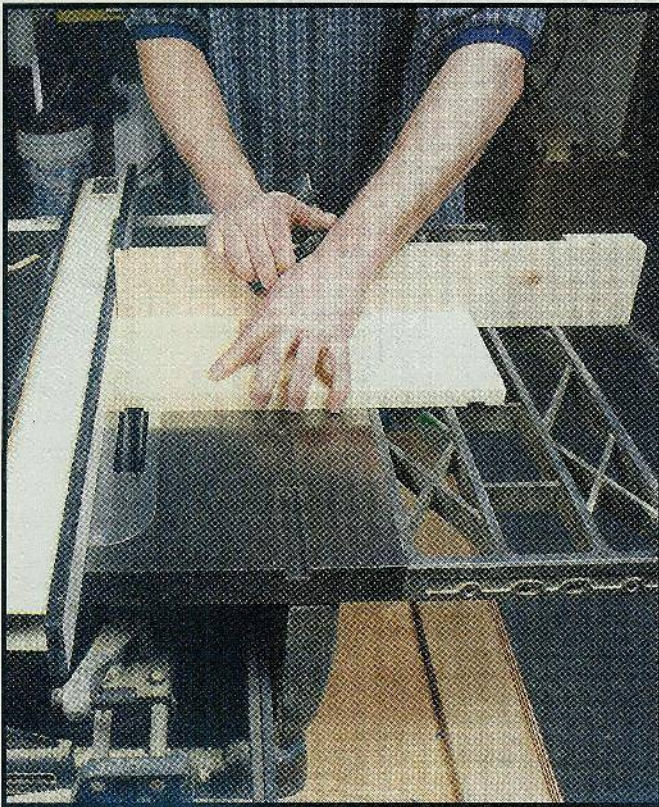
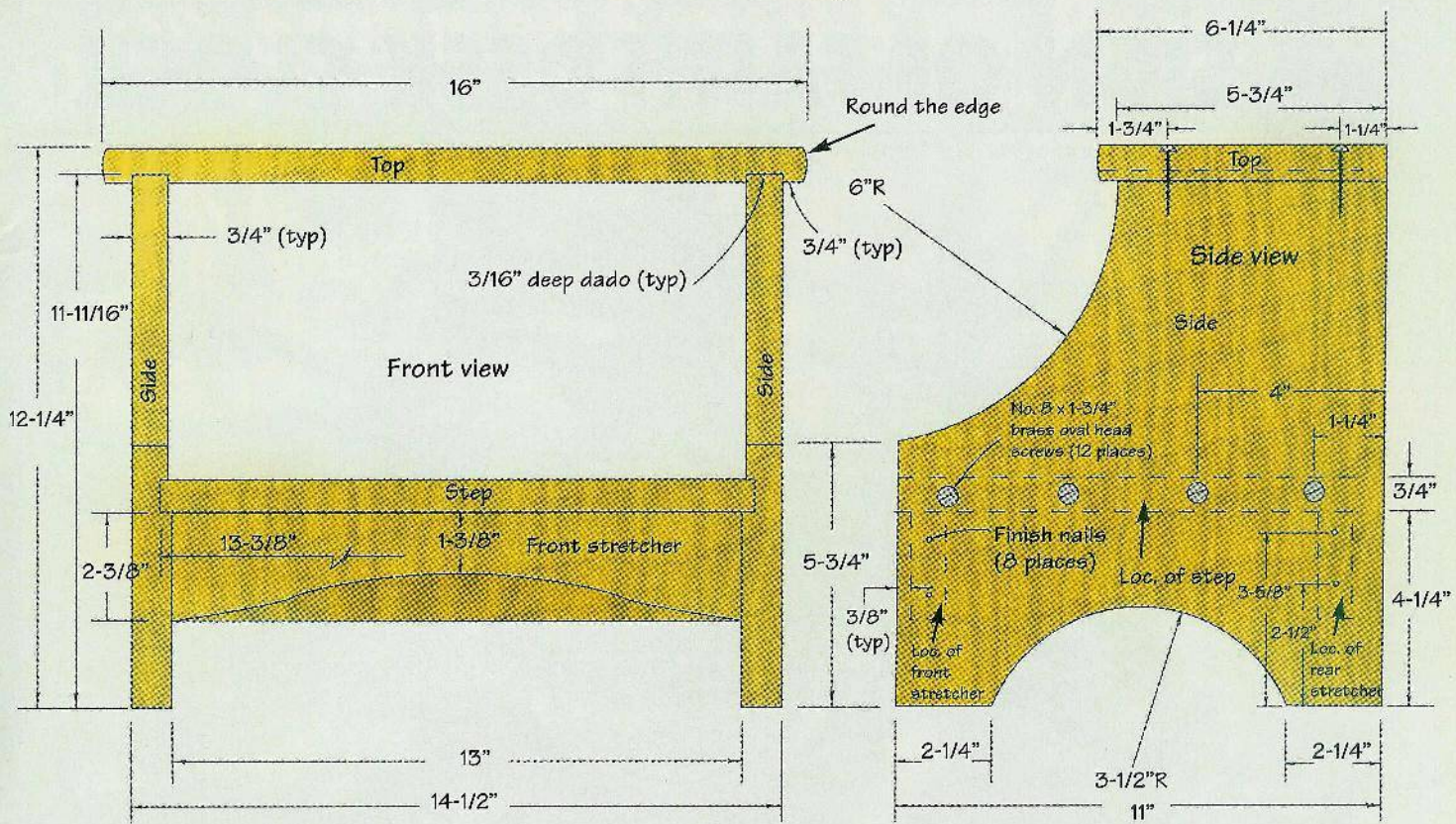


Fig. 7. Because it is narrow, the dados are cut in the top step using both the miter gauge and rip fence together to guide the wood.

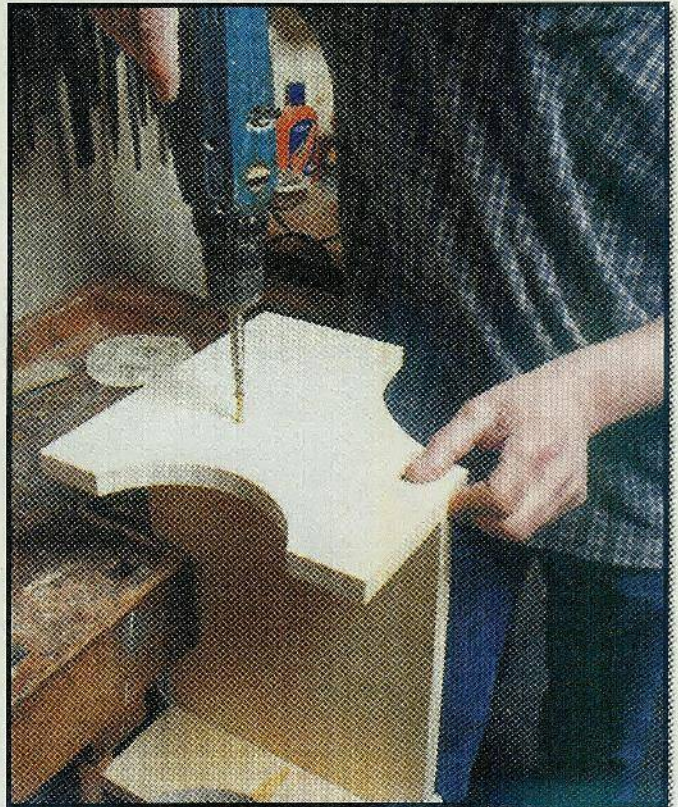


Fig. 8. To begin assembly, hold the bottom step in a vise as you glue and screw on the sides.



Patterns Located in Full Size
Pattern Section No. 1!

SIGN OF FAITH DESK CLOCK

by Dirk Boelman of The Art Factory



Introduction

This cross with ivy entwined background is another nice challenge for scroll saw enthusiasts. We made our cross and base from 1/4" thick material and the ivy from 1/8" thick contrasting material. **Note:** thicker materials can be used if desired. This would be advantageous for assembly as more surface contact would occur between the base and upright pieces.

The ivy is delicate and fragile (especially when made from 1/8" material). To add extra support and to help prevent breakage while sawing, here are a few tips:

1. Try stack sawing the pieces. More layers mean more strength of material, which adds extra support to the thin, fragile areas.
2. Replace the waste areas. Some cutout areas can be reinserted into delicate areas and held in place with tape for added support.
3. Use an auxiliary saw table. If your scroll saw has a large opening in the table around the blade, make a zero-clearance insert from a business card or playing card. This will help prevent small parts from breaking off as the blade passes down through the wood while sawing.
4. Use a pencil (eraser end) to hold down delicate pieces very close to the blade. This prevents breakage as the blade travels upward through the wood. It also keeps your fingers away from the blade.
5. And last, but not least, select a smaller scroll saw blade, probably a No. 2 or 3 and no higher than a No. 5. If you experience any problems with a reverse tooth type blade "lifting" the workpiece, switch to a regular skip tooth or double tooth blade. Also, slow down the saw's speed a little bit . . . and don't rush or crowd the wood into the blade!

With that said, let's make the project!

INSTRUCTIONS

Adhere the patterns to the wood with spray adhesive. Bore blade entry holes and make all cuts, beginning with the interior and working toward the perimeter. **Note:** if you choose to drill the 1-3/8"-Dia. clock mounting hole with a Forstner bit, bore it first. Furthermore, the cross has been designed to utilize a 1-7/16"-Dia. "angel" clock insert which is supplied with a rubber gasket to hold it snugly inside a 1-3/8"-Dia. mounting hole. To eliminate the need for this gasket, saw along the inside edge of the bold cutting line shown on the pattern. This will produce an approximate 34mm-Dia. hole. If you prefer to bore the hole with a 1-3/8"-Dia. Forstner bit, or if the scroll sawn hole fits too loosely, the rubber gasket can be used to securely mount the clock insert.

Remove patterns and touch up any imperfections with needle files, sandpaper, etc.

Assembly

Pre-drill a pilot hole into the bottom of the cross. This will prevent the wood from splitting when the wood screw, used for securing the cross to the base, is later installed.

Glue the ivy to the back of the cross, making sure that the bottom of both pieces are flush to ensure proper mounting on the base.

Glue the three base blocks together. Drill a mounting hole for the No. 6 x 1" wood screw to pass through all three blocks and 1/4" into the center of the bottom of the cross. Countersink screw head on bottom of base. **Note:** if using thicker material than listed in supplies, use an appropriate size and length wood screw.

Finish as desired and insert clock. And that's all there is to it!



SUPPLIES

Wood: wood of choice—one piece 1/4" x 4-3/4" x 6-3/4" (for the cross), one piece 1/4" x 3-1/4" x 6-1/2" (for base block A), one piece 1/4" x 2-1/4" x 5-1/2" (for base block B), one piece 1/4" x 1-1/4" x 4-1/2" (for base block C); contrasting wood of choice—one piece 1/8" x 5-1/2" x 6-1/2" (for the ivy)

Tools: scroll saw with assorted blades; drill with bits including a 1-3/8"-Dia. Forstner bit (optional) and a countersink bit; needle files

Temporary-bond spray adhesive

Sandpaper, assorted grits

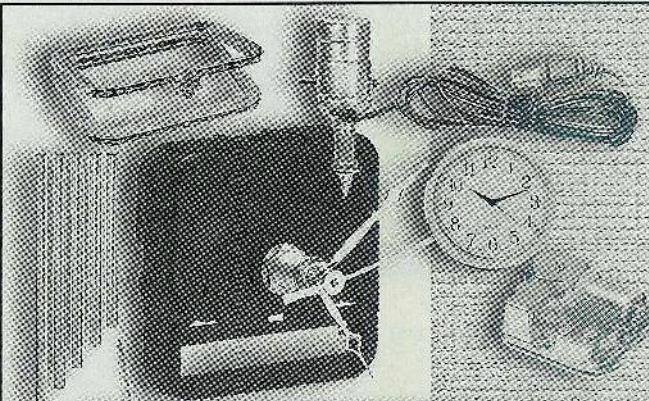
No. 6 x 1" wood screw

Wood glue

Finish of choice

1-7/16"-Dia. angel clock insert*

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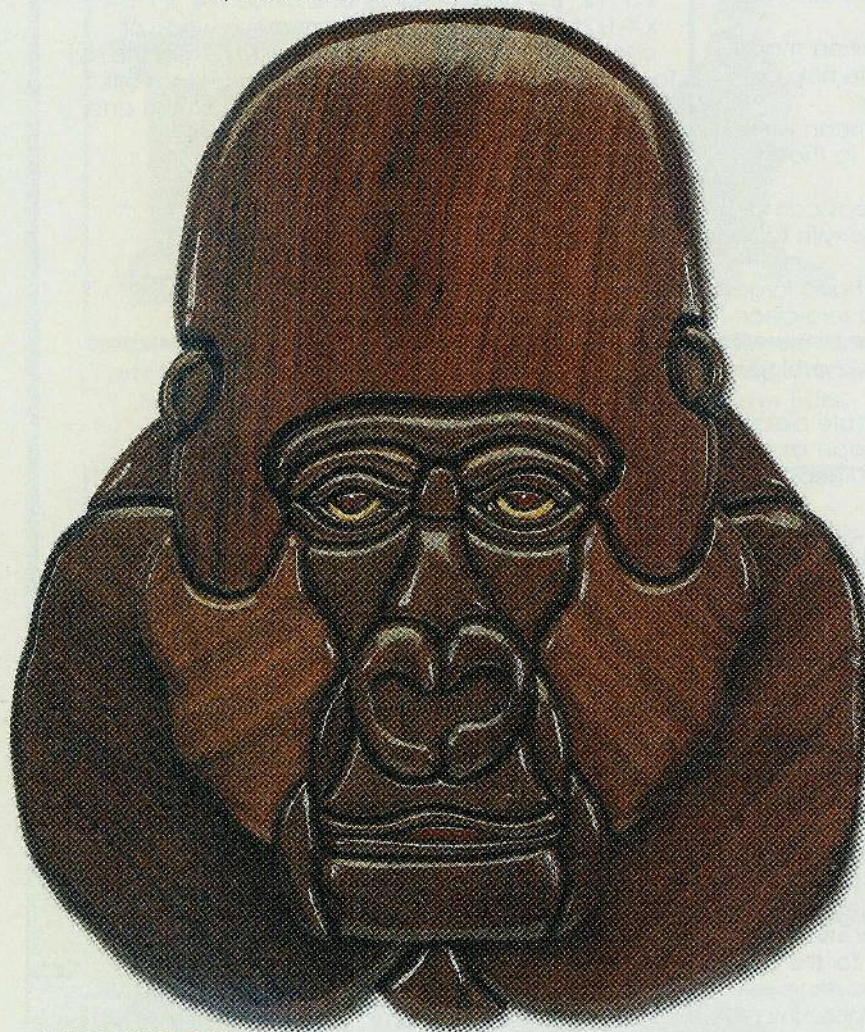
CATALOG \$3



Pattern Located in Full Size
Pattern Section No. 1!

GORILLA

by Darin Liles of Shirley, AR



SUPPLIES

Wood: dark walnut—one piece 3/4" x 10" x 48" (for the gorilla head); Bloodwood—one piece 1/2" x 3" x 3" (for the eyes and mouth); maple—one piece 1/2" x 3" x 3" (for the eyes); plywood—one piece 3/4" x 24" x 24" (to raise the head), one piece 1/4" x 24" x 24" (for the backer)

Tools: scroll saw with No. 5 blades; drill press with 1/8"-Dia. bit and flutter wheel; oscillating spindle sander; palm sander; clamps (assorted sizes); pneumatic brad nailer with brads (optional)

Carbon paper

Tracing paper

Scrap plywood in a variety of thicknesses for shims

1/8"-Dia. doweling

Wood glue

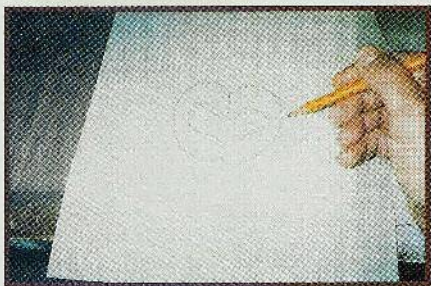
Dark walnut stain of choice

Natural stain of choice

Clear coat finish of choice

Hanger of choice

INSTRUCTIONS



Step 1. Start by transferring the entire project to tracing paper. The relative transparency of the tracing paper allows for a better view of the wood grain. Begin by transferring the nose to the selected stock with carbon paper. Cut out the piece and use it as a template to draw an accurate cut line on the adjacent piece. Sand each piece with the oscillating spindle sander to ensure that they are all square.



Step 2. Continue cutting pieces and sanding them square. As each piece is cut, fit it together with the rest. Notice that Bloodwood was used for the mouth.



Step 3. Start cutting the upper portion of the face. Sand these pieces square and assemble to check the fit. I used maple for the whites of the eyes. The highlights of the eyes are 1/8"-Dia. dowels inserted into holes drilled in the eyes as indicated on the pattern.



Step 4. Using shims made from scrap pieces of plywood, raise the face pieces as indicated on the pattern.



Step 5. Cut and fit the sides and top of the head to the face assembly, then round the pieces and reassemble them.



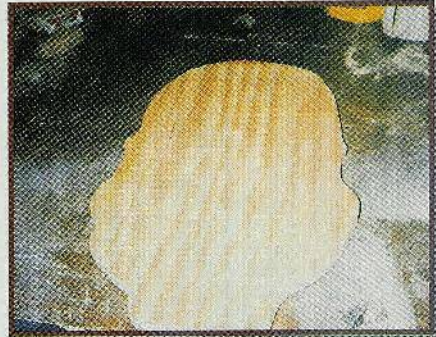
Step 6. Apply dark walnut stain to the interior face pieces and natural stain to the remaining pieces.



Step 7. Glue the face assembly together. When gluing the pieces together, remember that a little glue goes a long way. Apply the glue to the bottom edge of the pieces.



Step 8. Clamp the edge glued face pieces together and let dry.



Step 9. Lay the face assembly on the 3/4" plywood and trace around it. Cut the face backer to shape.



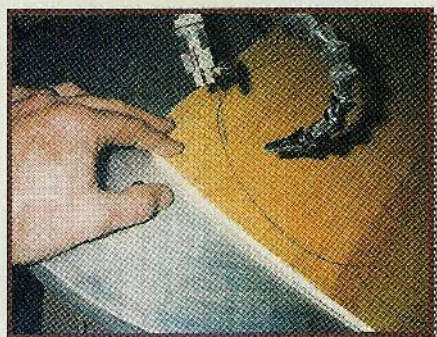
Step 10. Use the cut plywood piece as a template to fit the shoulder pieces.



Step 11. Using the oscillating spindle sander, shape the shoulder pieces.



Step 12. Glue and clamp the face assembly to the shoulders.



Step 13. Lay the entire glued up piece on the piece of 1/4" plywood and trace around it. Saw around the traced line, cutting the plywood backer to shape. When cutting, stay about 1/4" inside the line.



Step 14. Affix the 1/4" backer to the rear of the intarsia piece.



Step 15. Apply clear coat to the finished piece. When dry, add a hanger to the back, hang and enjoy!



CATS ON THE WALL KEY RACK

by Janice Manuel



SUPPLIES

Wood: wood of choice—one piece $3/4"$ x $6-3/4"$ x $11-5/8"$

Tools: scroll saw with No. 5 blades; drill with bits

Temporary-bond spray adhesive

Sandpaper, assorted grits

Five $3/4"$ brass cup hooks

Clear oil finish of choice

Hanger of choice

INSTRUCTIONS

Select your stock and size it to the dimensions indicated in the supplies list. Thoroughly sand the piece. It is a lot easier to sand the surface before the piece is scrolled. Copy the pattern and transfer it to the selected stock, attaching it with spray adhesive. Bore blade entry holes in the waste areas of the pattern. Saw out the waste areas of the pattern. **Note:** DO NOT saw around the

lower (tail) portions of the cats at this time, they will be cut in the next step.

Tilt your saw table 3 to 4 degrees to the right and saw around the cats in the direction indicated on the pattern. You want the finished pieces to push through the back about halfway. **Hint:** make a test cut, using a scrap of wood the same thickness as your project, to make sure the angle is set correctly. When satisfied, cut out each cat. Set each cat aside until all are cut free.

Hand sand any edges as needed. I like to round each cat over. If you want, the cats can also be carved and/or painted to add more detail. **Hint:** handle the back piece of the rack carefully as it will be somewhat fragile until the cats are glued back in place.

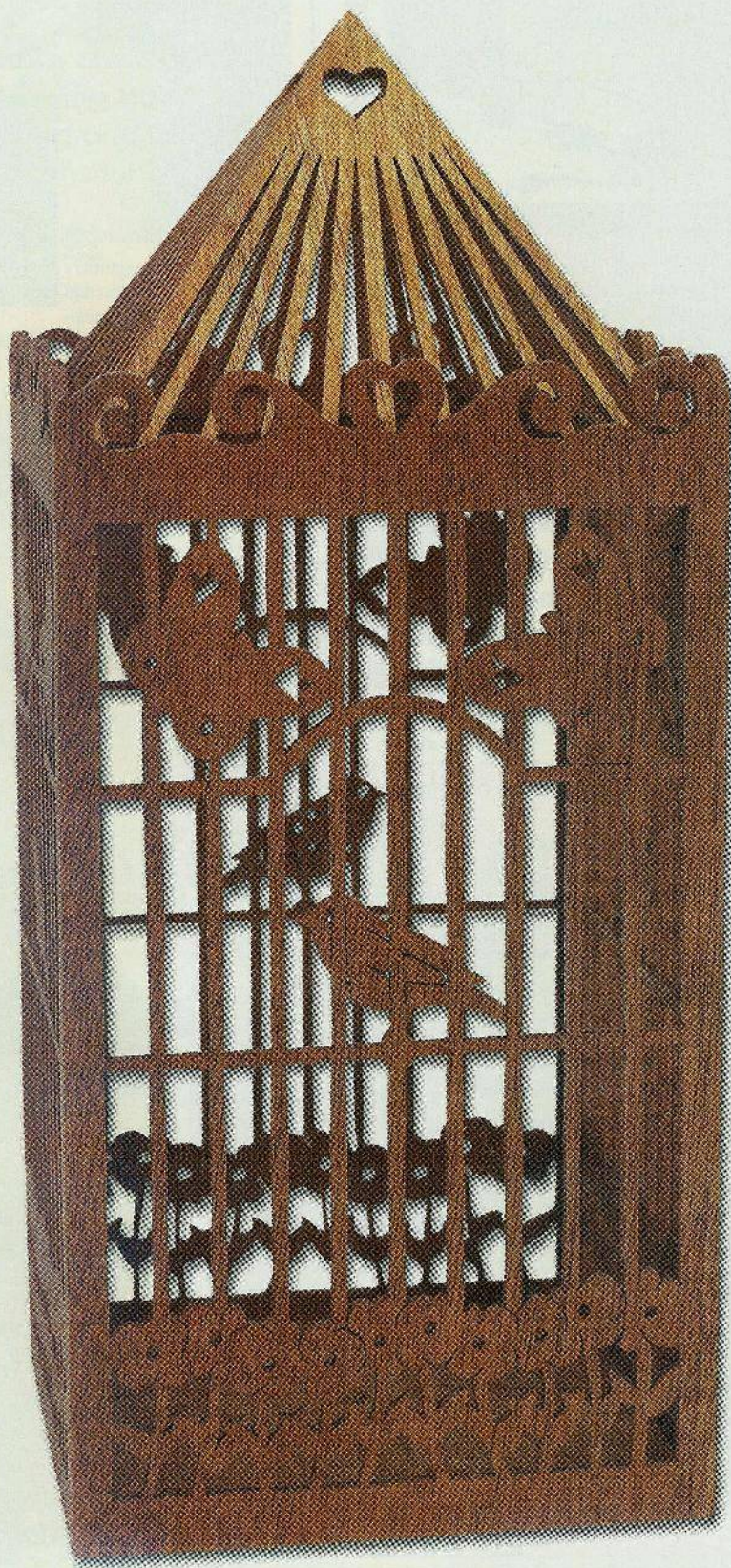
Apply two coats of clear finish to all pieces. I prefer to do all of the finishing before I glue the cats. Place a small amount of glue on the lower edge of each cat and push them into position. When dry, attach the hanger to the back of the piece and the cup hooks to the front (as indicated on the pattern). Hang and enjoy!



Pattern Located in Full Size
Pattern Section No. 2!

BIRD CAGE

by Neil F. Cohen and sawn by Dave Klimchuk



SUPPLIES

Wood: mahogany or wood of choice—four pieces $1/8" \times 5-5/8" \times 10-1/4"$ (for the cage sides), four pieces $1/8" \times 4-5/8" \times 5-3/8"$ (for the roof pieces), four pieces $1/8" \times 1/8" \times 5-3/8"$ (for the roof supports), one piece $1/8" \times 5-3/8" \times 5-3/8"$ (for the floor)

Tools: scroll saw with assorted blades; drill with $1/8"$ -Dia. bit; palm sander; mini files
Sandpaper, assorted grits
Temporary-bond spray adhesive
Clamps
Wood glue
Finish of choice

INSTRUCTIONS

Referring to the supplies list, cut the pieces to size. Adhere the patterns to the wood with spray adhesive and bore blade entry holes in the waste areas, as well as the holes for the flower centers, butterflies' wings and bird's eye. Cut the pieces to shape following the solid lines (the dashed lines indicate the locations of the roof supports and the floor). Be sure to cut the bevels on each piece as indicated on the patterns. **Note:** the roof and cage side pieces can be stack cut. Sand all pieces smooth.

Assemble by first attaching the sides together using wood glue. Attach the sides to the floor at the same time and clamp while drying. Glue the four pieces of the roof together. Make sure that the bottom of the roof stays flat while the glue is drying. Make a light pencil mark around the inside of the cage $8-7/8"$ up from the floor and glue the roof supports in place on the inside of the cage (the top of the support must meet the line). Sand any rough edges and apply finish of choice. Fill with candy, dried flowers, potpourri, etc., lay the roof in place, and enjoy!

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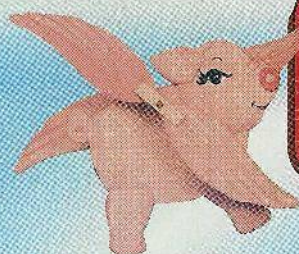
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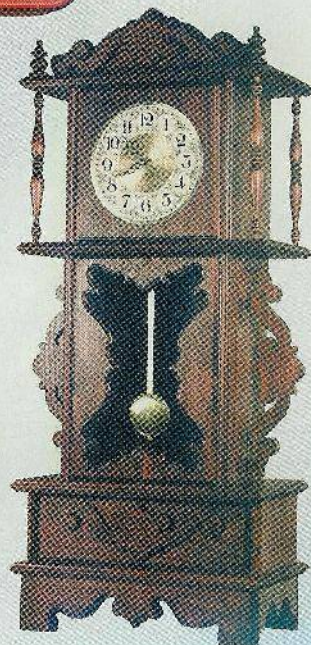
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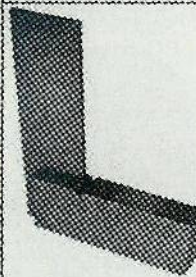
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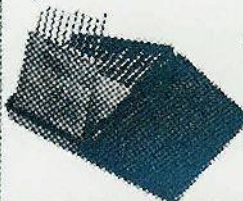
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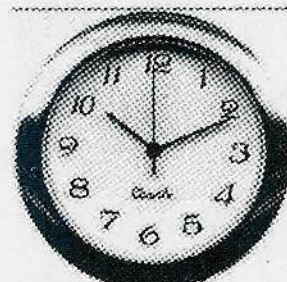
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#CK102 - Gold Arabic



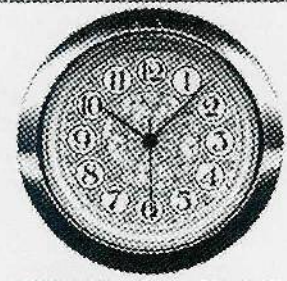
#CK101 - White Roman

#CK104 - Ivory Roman

#CK105 - Gold Roman

1+ \$4.75 ~ 10+ \$4.35 ~ 30+ \$3.95 ~ 100+ \$3.65

1 7/16" Inserts, Glass Lens, Stainless Steel Back, With Battery
NO ECONOMY INSERTS - NO RUBBER GASKETS - MIX OR MATCH



#CK108 - New Dial !!

1 7/16" Fancy Gold & Black

Dial, Arabic Numbers

1+ \$5.50 - 10+ \$5.20

30+ \$4.75 - 100+ \$4.40



#PHOTO-1

1 7/16" Photo insert

1+ \$1.75 - 10+ \$1.55

30+ \$1.35 - 100+ \$1.25

We now have 2" Photo Inserts !!!

All Clock & photo inserts have a gold tone bezel. Clocks
 include battery. All require a 1 3/8" mounting hole 5/16" deep.

1 3/8" Forstner Bit - #FOR138 - \$ 9.00 each

We also stock 2 3/4" & 3 1/2" clock inserts !!!!



Blade Storage Tubes

Clear plastic tubes
 3/4" dia. 6" long, tops
 have hangtabs

\$3.95 dozen

#TUBE-12

Order Toll Free
1-888-615-9663

**Sloan's
Woodshop**

3453 Callis Road

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37090

SHIPPING CHARGES

Applies to the 48 contiguous states only

\$00.00 - \$40.00 add \$ 5.00

\$40.01 - \$60.00 add \$ 6.50

\$60.01 - \$80.00 add \$ 8.00

\$80.01 and over add 10%

Blade only orders \$5.00 shipping

TN residents add 8.25% Sales Tax

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... and discover your
woodworking potential

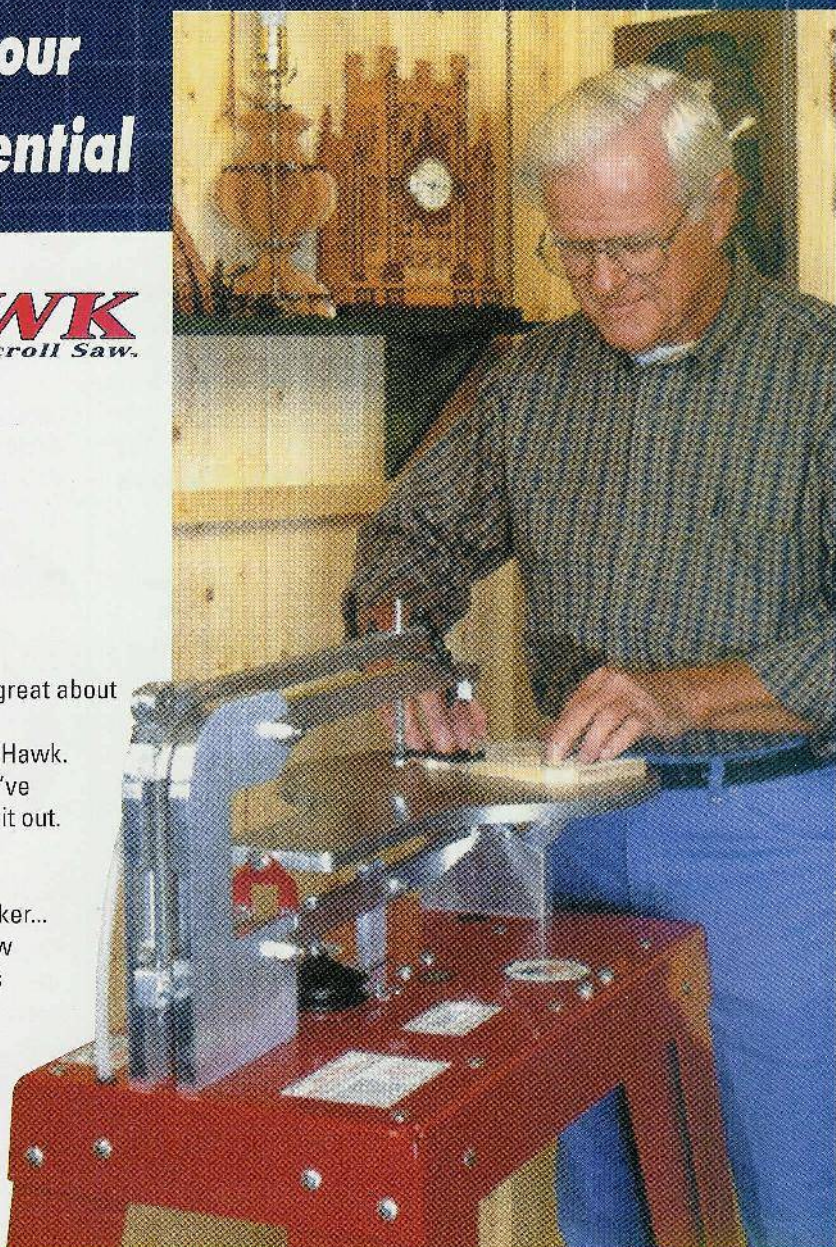


- Cuts almost anything
- Available in 3 versatile models
- Packed with exclusive features
- Makes woodworking more creative and fun
- Precision engineered for performance, safety, and durability

The Hawk Precision Scroll Saw makes you feel great about your woodworking...and others envy your skill. If you can draw a line, you can follow it with the Hawk. Like that you're creating the kind of projects you've dreamed of. Trace any kind of pattern and scroll it out. It's that simple.

Whether you're a new or experienced woodworker... a hobbyist or pro...the Hawk Precision Scroll Saw makes it fast, easy, and fun to produce hundreds of projects.

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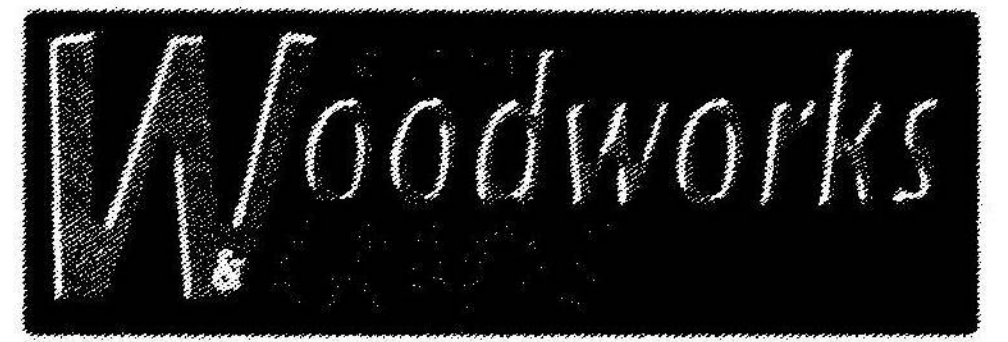
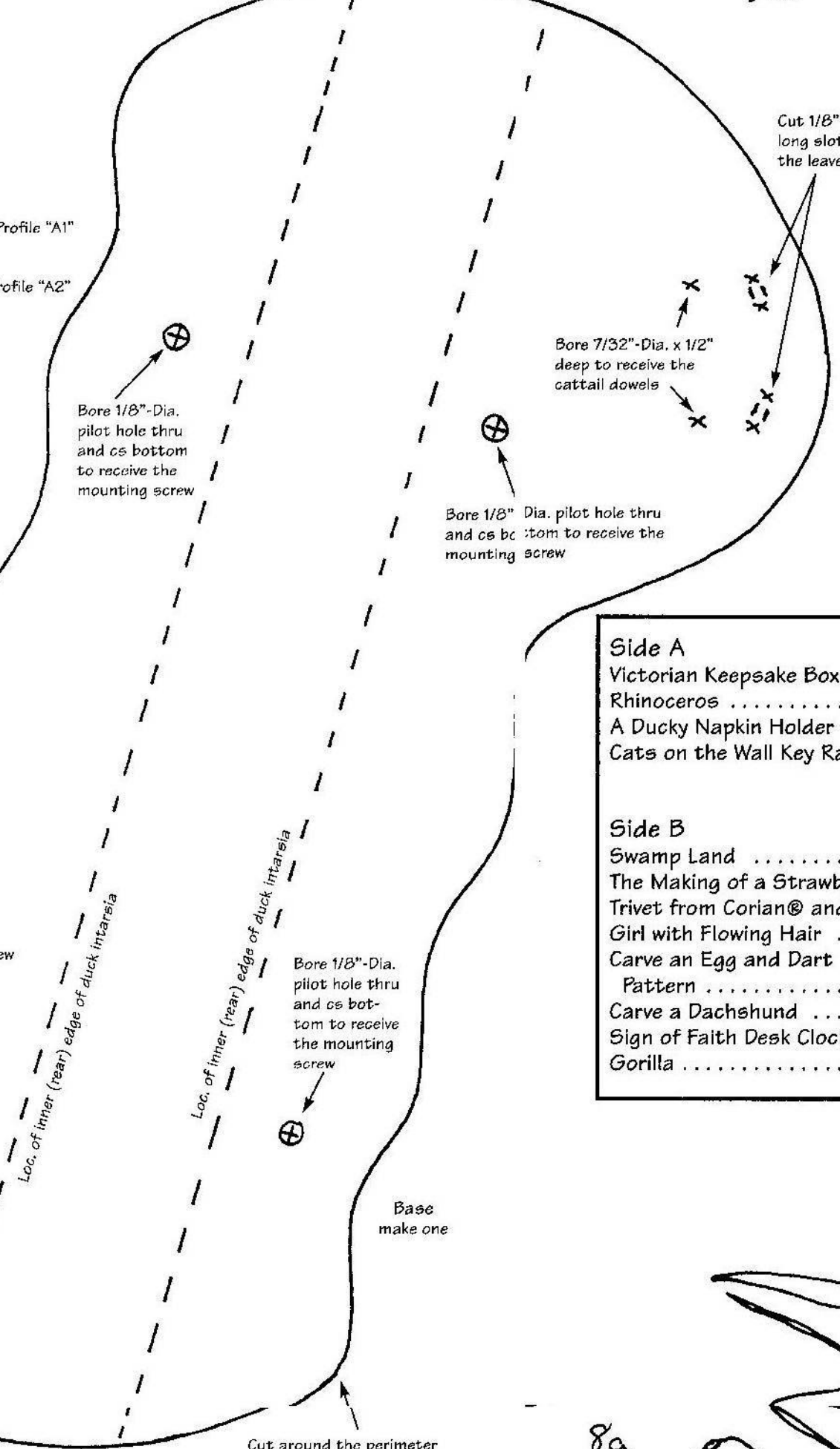
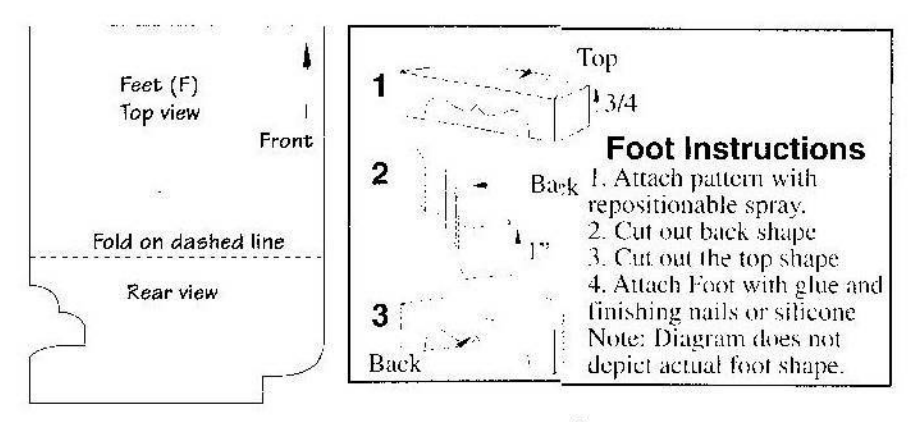
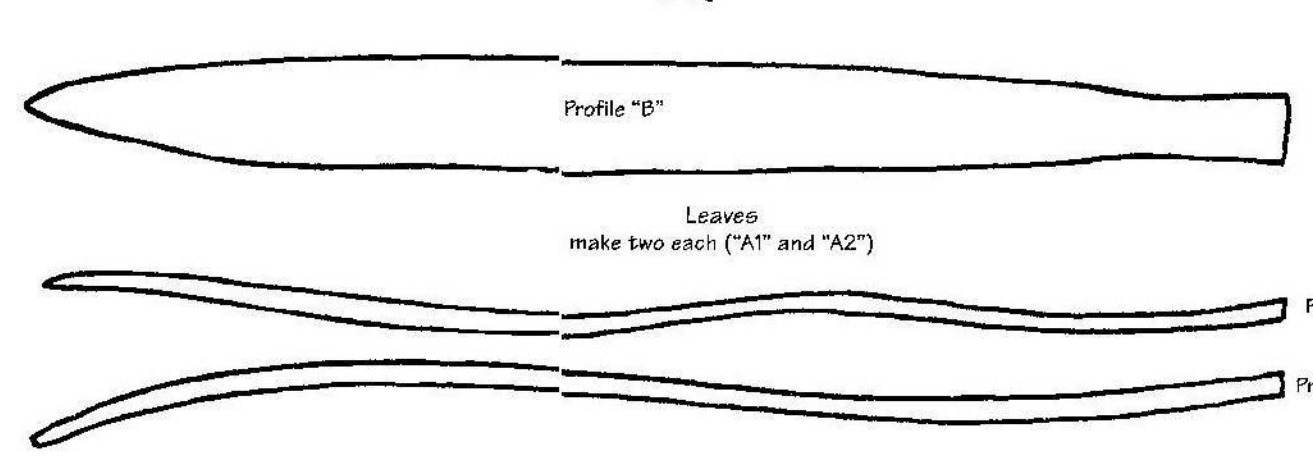
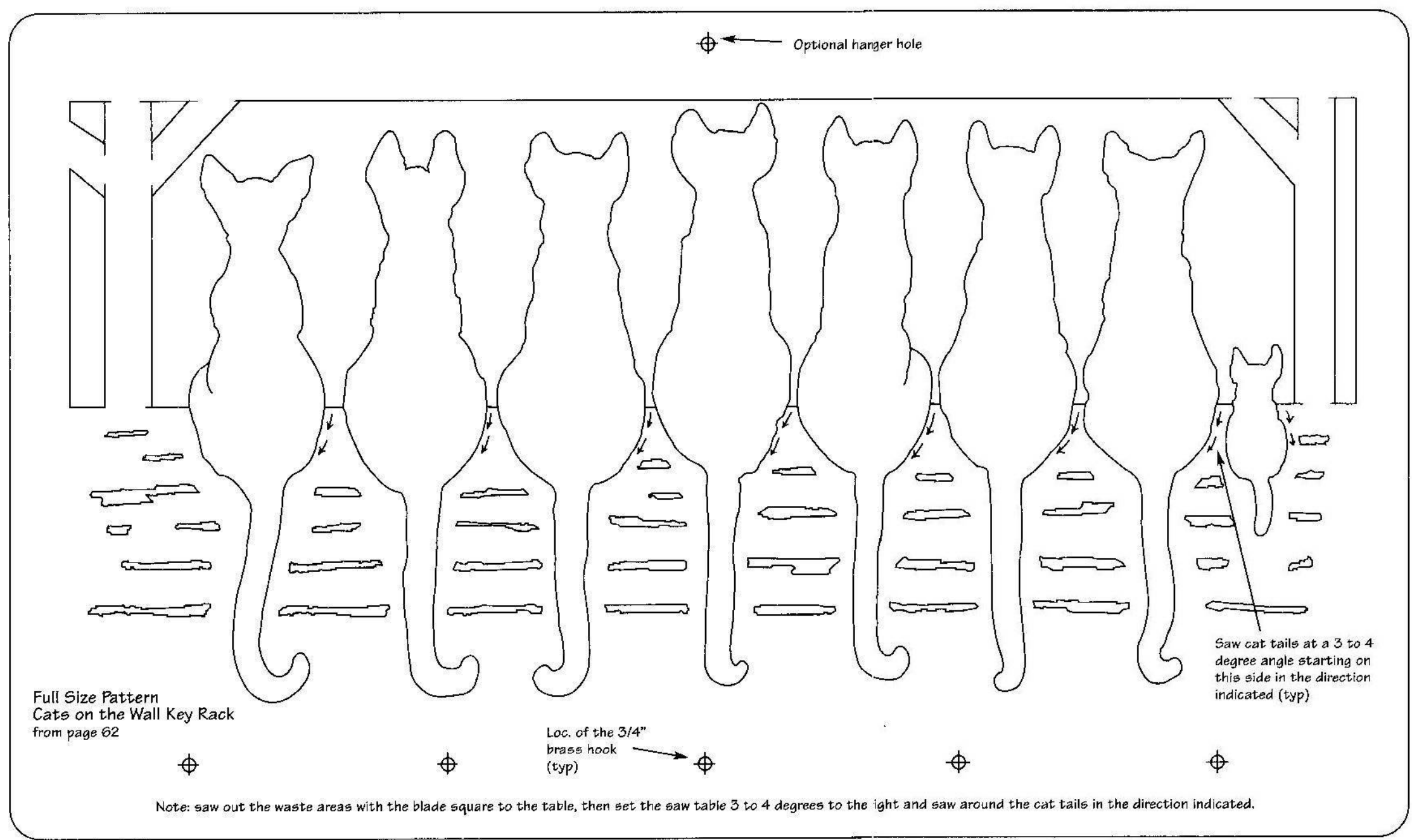
(Optional—occasionally receive special offers via email)

1a

2a

3a

4a

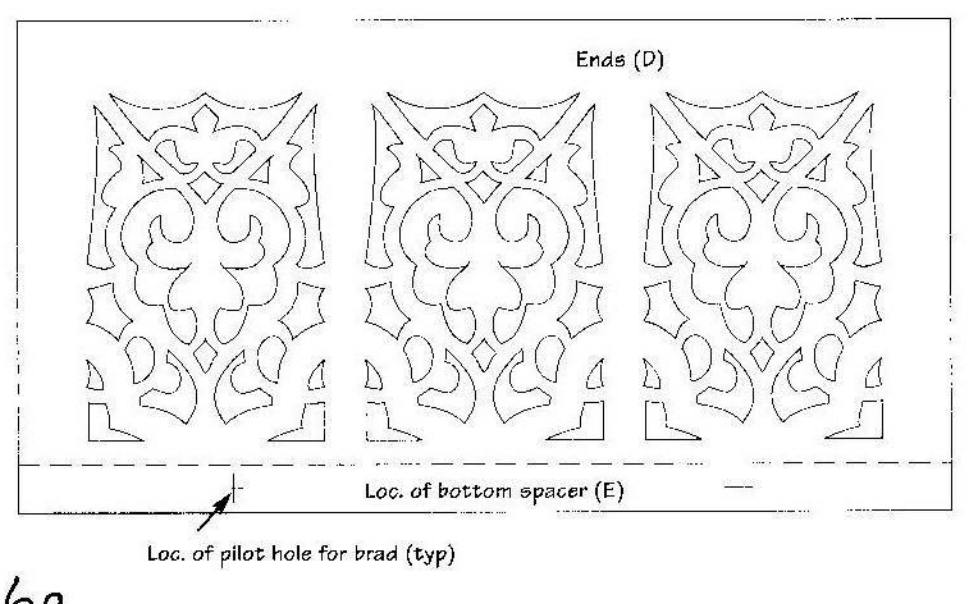
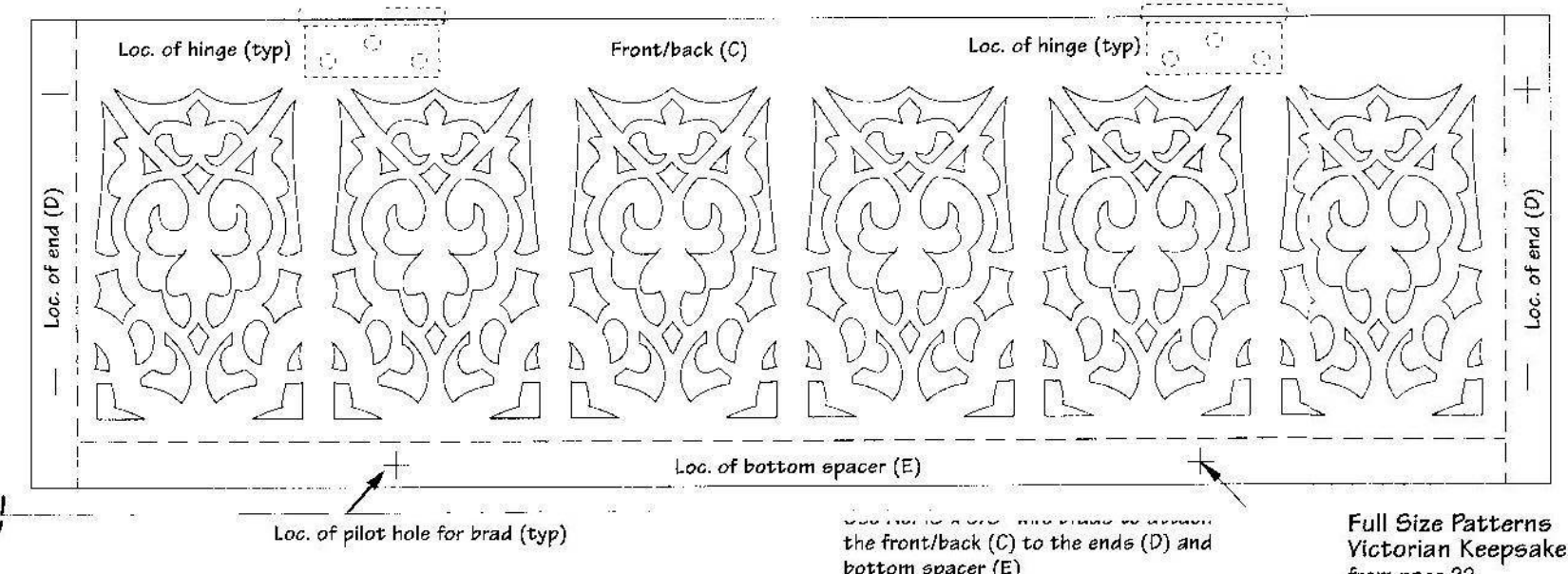


FULL SIZE PATTERN SECTION NO. 1 AUGUST 2002

Metric Conversions:	
1 inch = 25.4mm = 2.54cm = 0.0254m	
Common Measurements:	
1/16" = 1.59mm	5" = 12.70cm
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3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m

Side A
Victorian Keepsake Boxfrom page 22
Rhinosfrom page 46
A Ducky Napkin Holderfrom page 48
Cats on the Wall Key Rackfrom page 62

Side B
Swamp Landfrom page 6
The Making of a Strawberry
Trivet from Corian® and Inlaidfrom page 32
Girl with Flowing Hairfrom page 36
Carve an Egg and Dart
Patternfrom page 40
Carve a Dachehundfrom page 42
Sign of Faith Desk Clockfrom page 58
Gorillafrom page 60

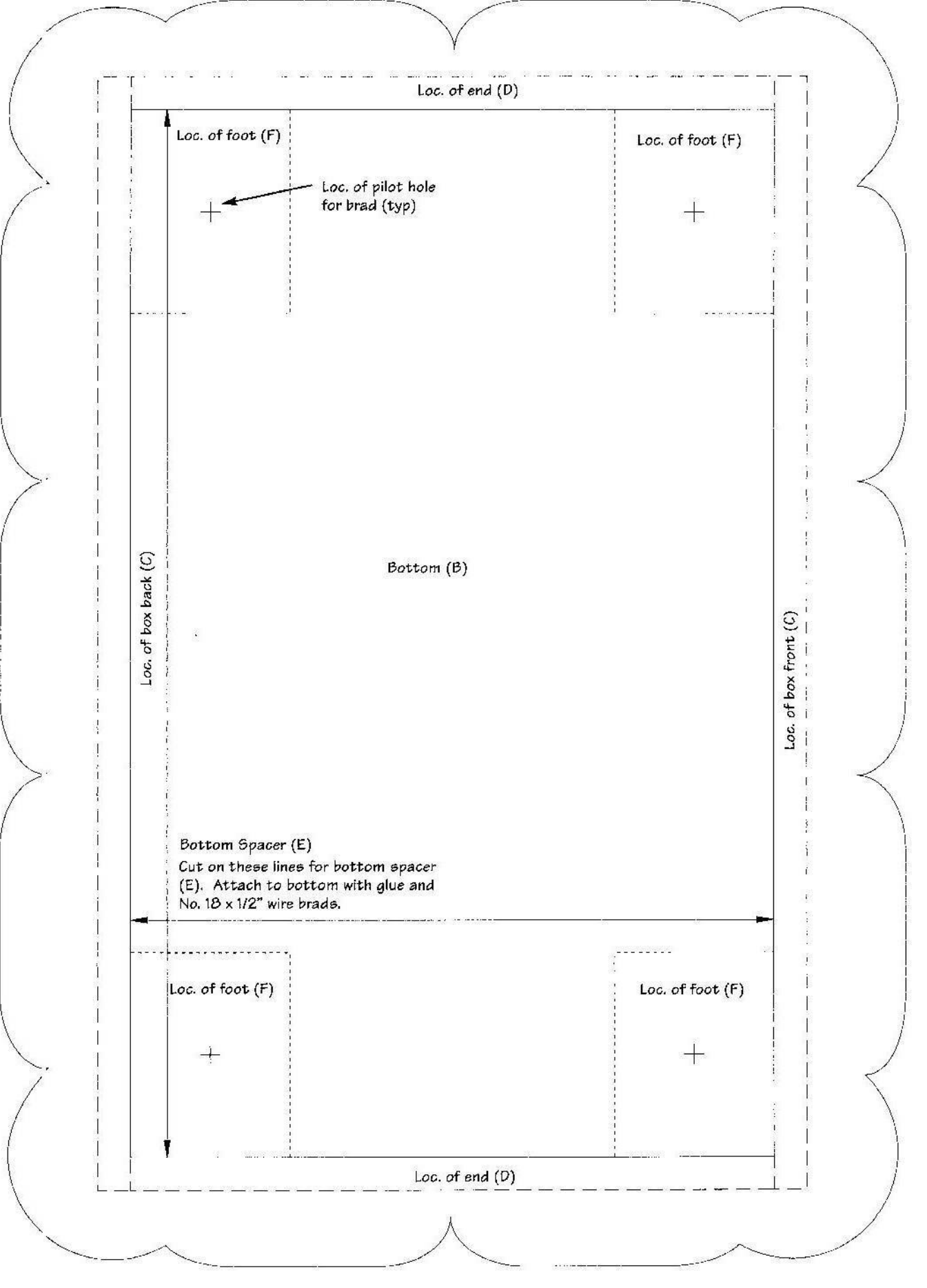
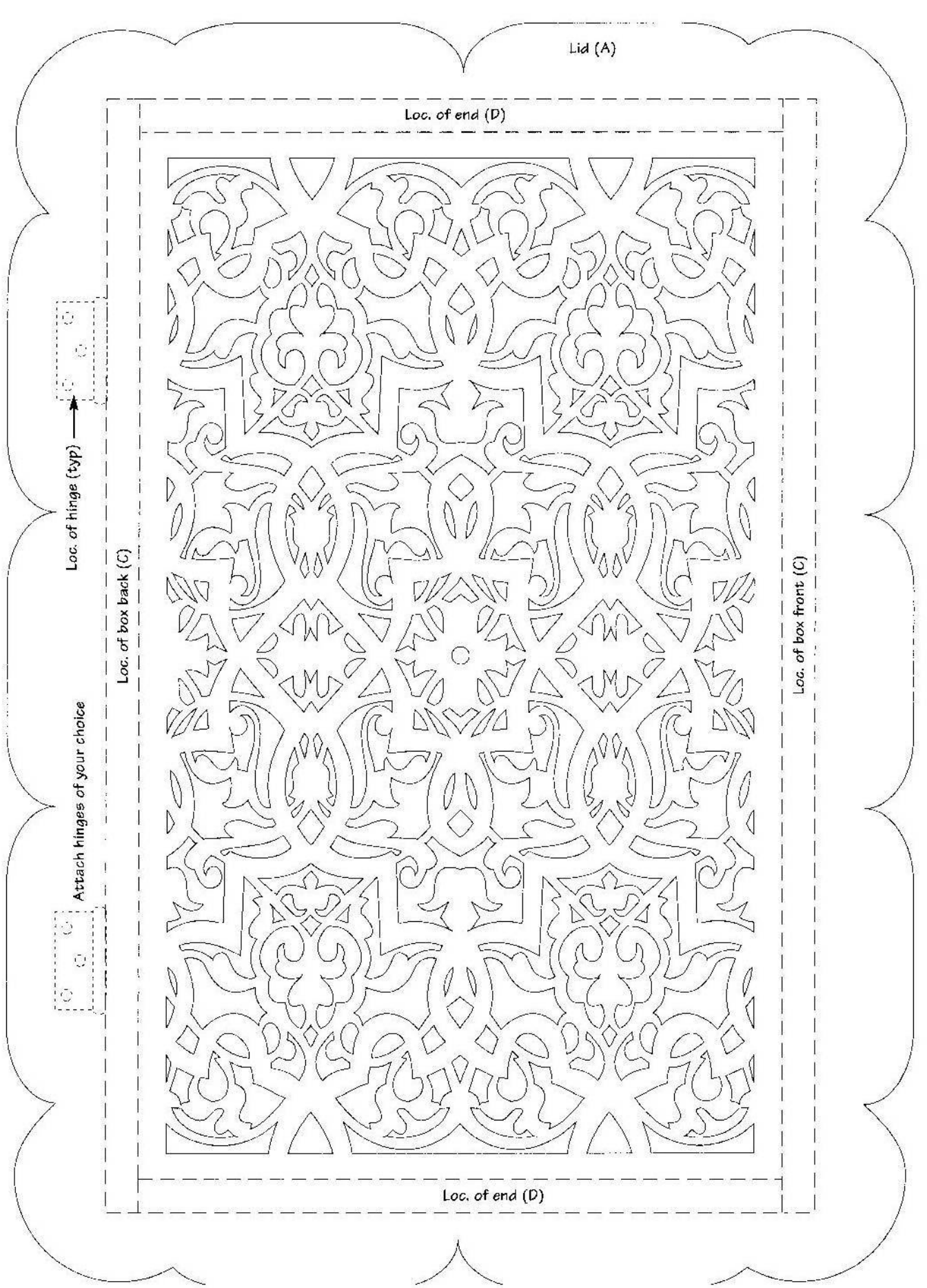


5a

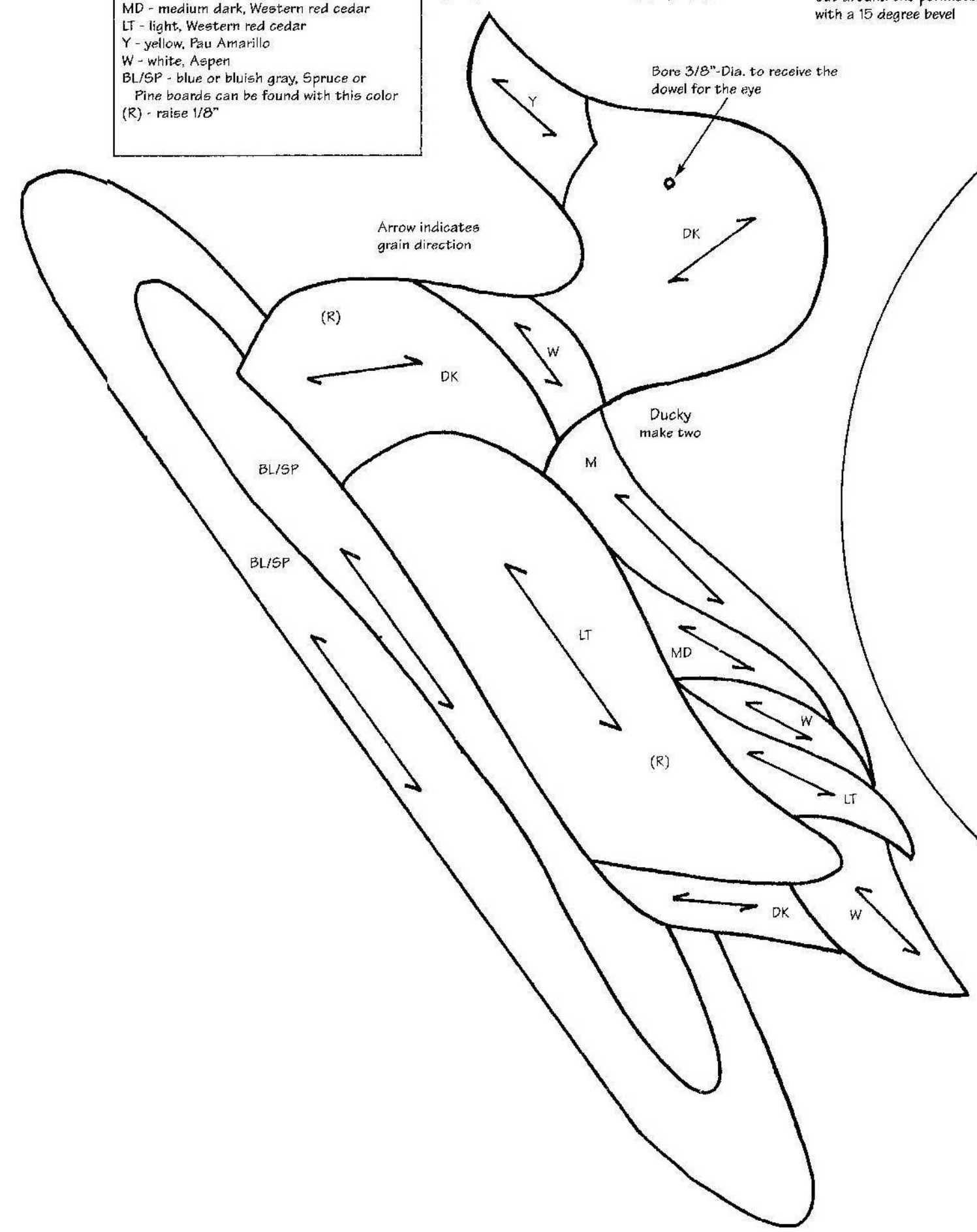
6a

7a

8a

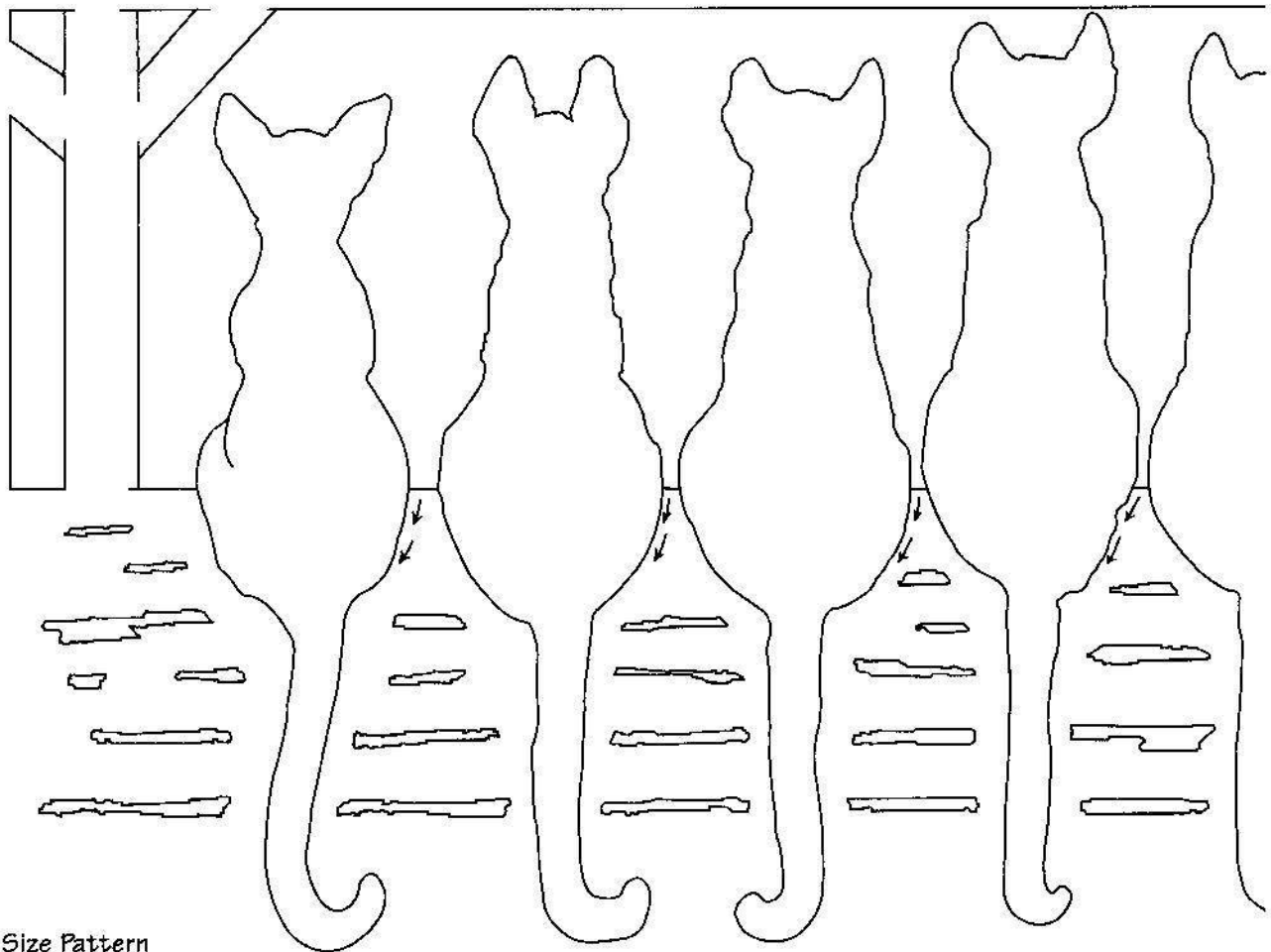


DK - dark, Western red cedar
M - medium, Western red cedar
MD - medium dark, Western red cedar
LT - light, Western red cedar
Y - yellow, Pau Amarello
W - white, Aspen
BL/SP - blue or bluish gray, Spruce or Pine boards can be found with this color
(R) - raise 1/8"



1a

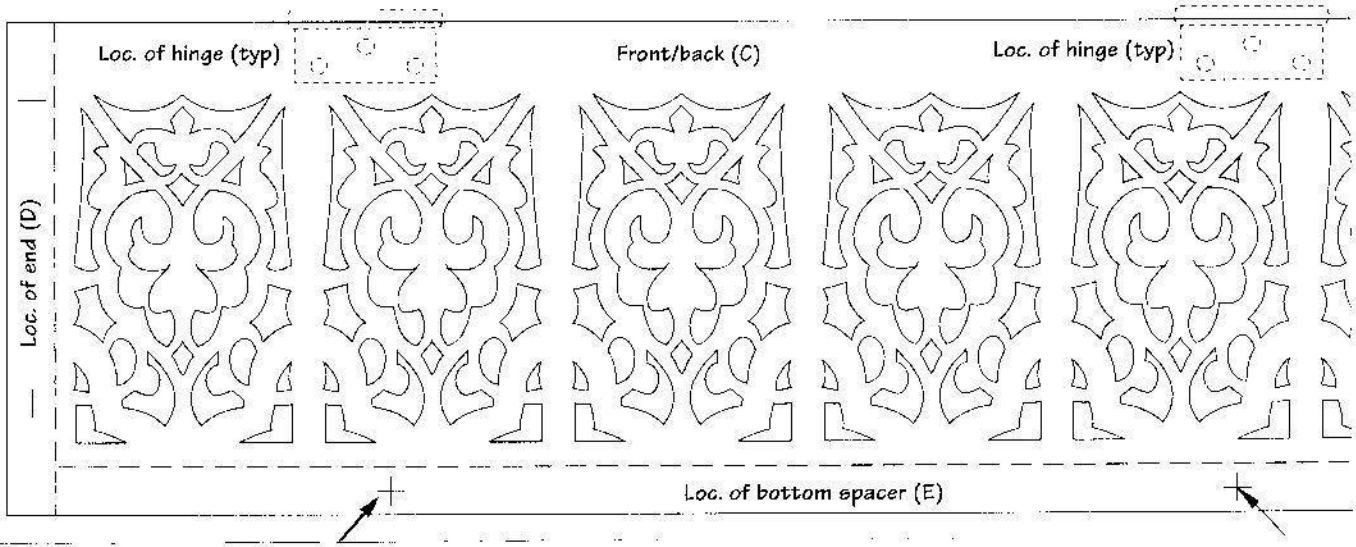
Optional handle



Full Size Pattern
Cats on the Wall Key Rack
from page 62

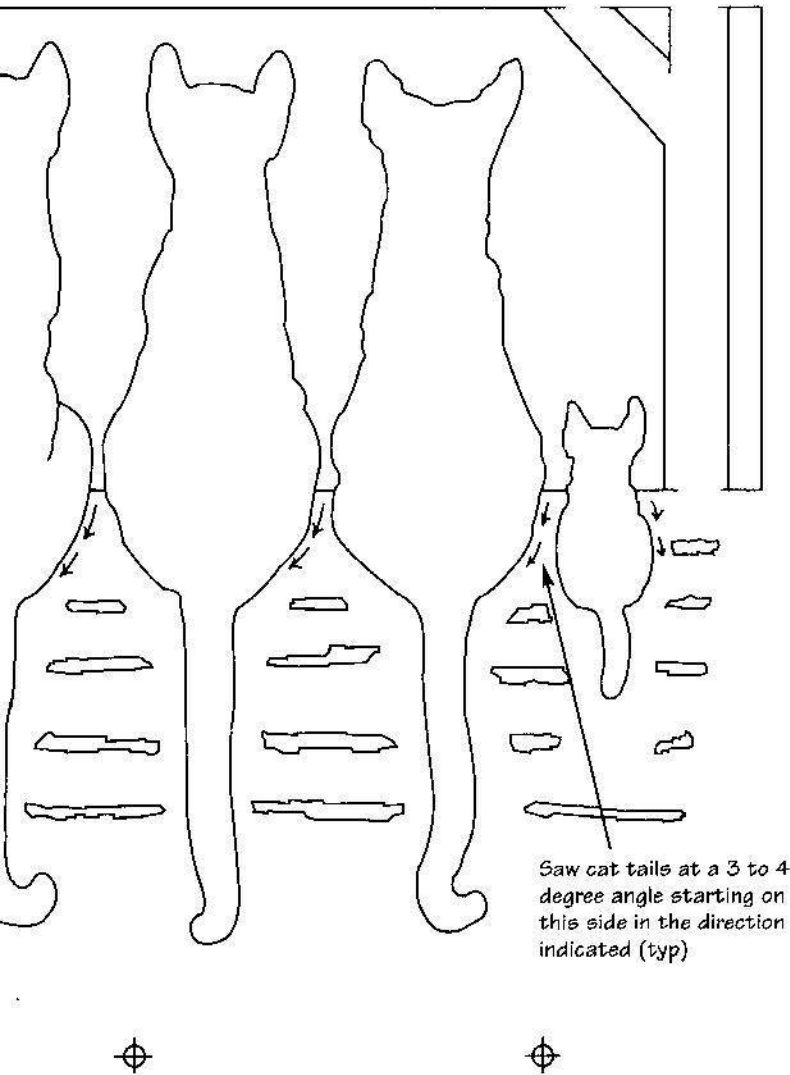
Loc. of the 3/4"
brass hook
(typ)

Note: saw out the waste areas with the blade square to the table, then set the saw table 3 to 4 degrees to the

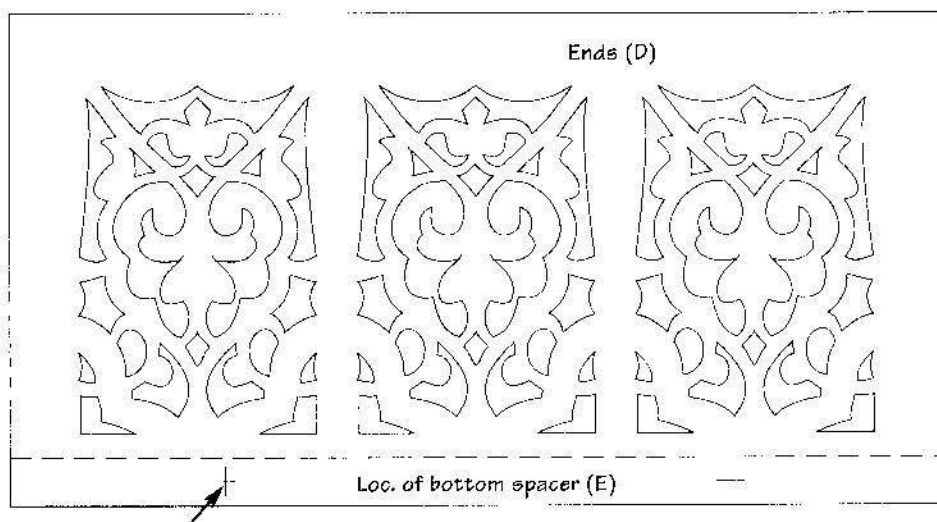
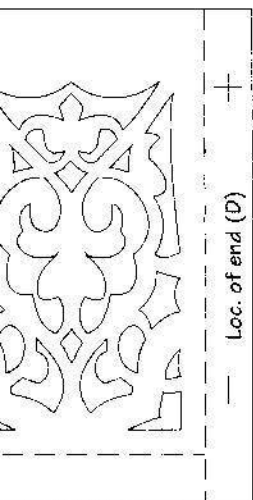
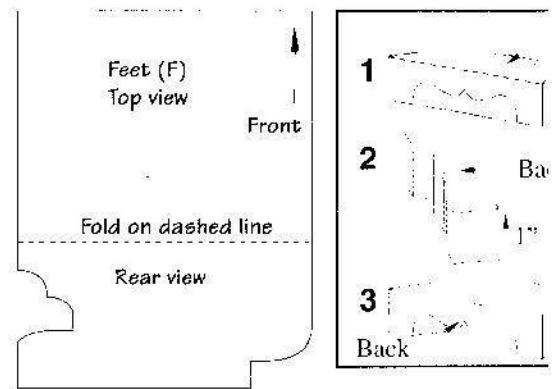
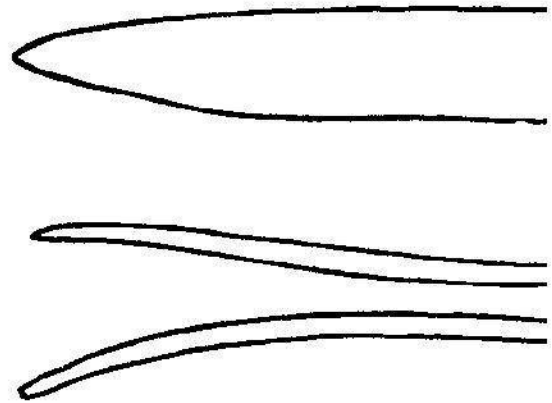


2a

ger hole



ight and saw around the cat tails in the direction indicated.

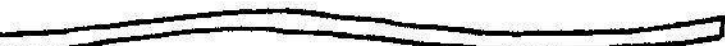


3a



Profile "B"

Leaves
make two each ("A1" and "A2")



Profile "A1"



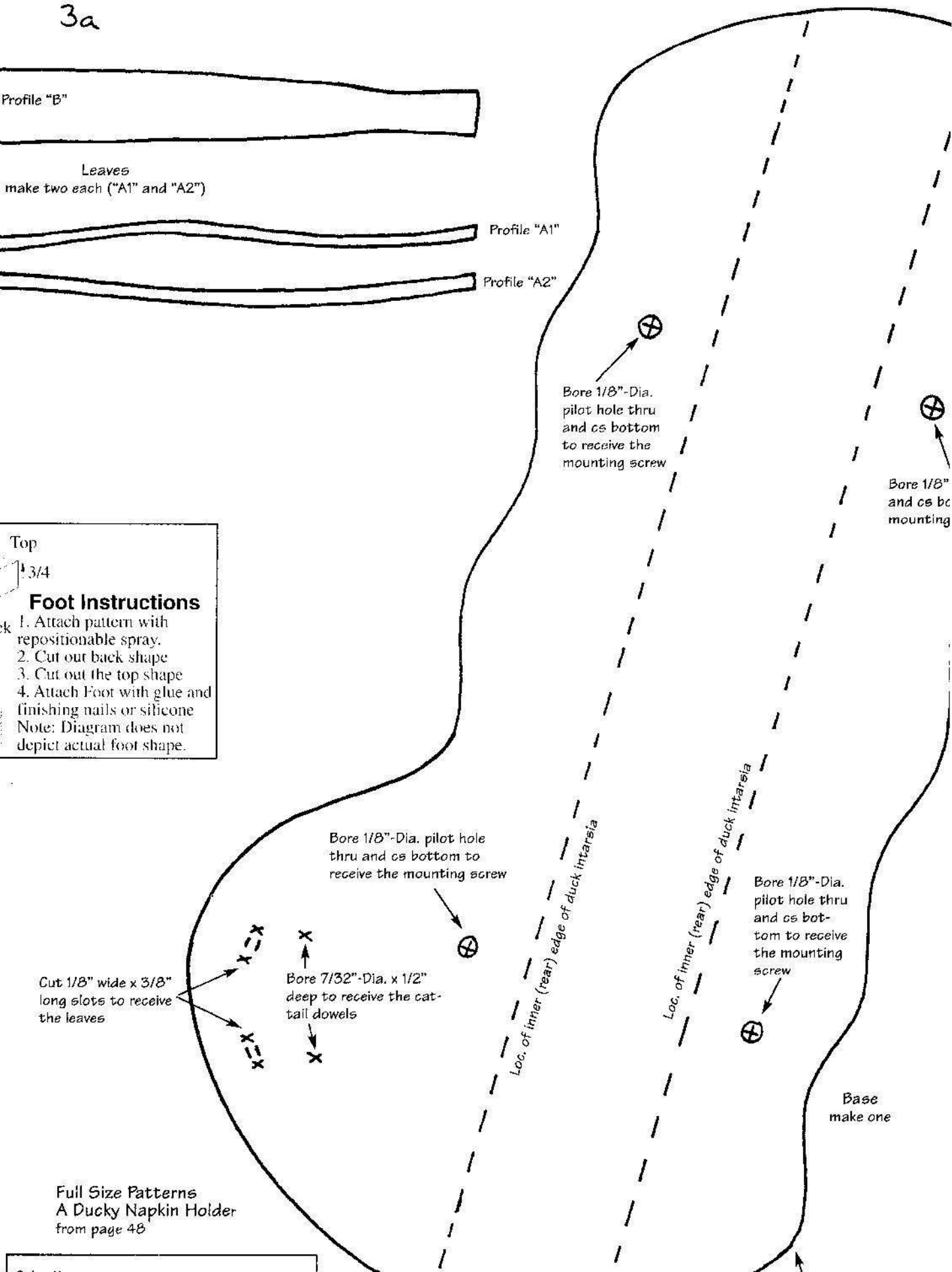
Profile "A2"

Top
3/4

Foot Instructions

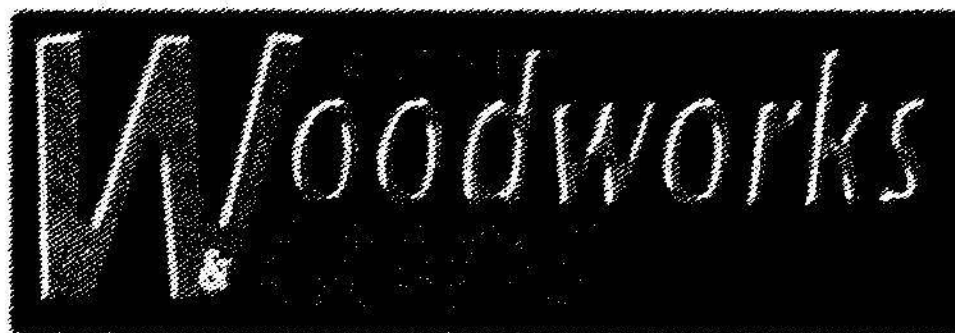
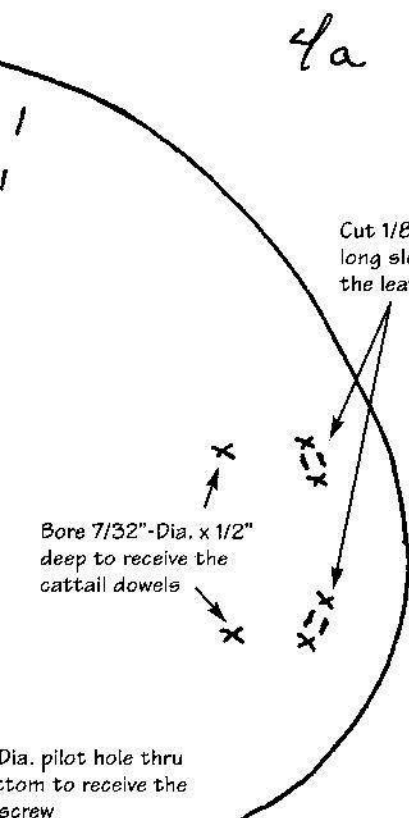
1. Attach pattern with repositionable spray.
2. Cut out back shape
3. Cut out the top shape
4. Attach Foot with glue and finishing nails or silicone

Note: Diagram does not depict actual foot shape.



Full Size Patterns
A Ducky Napkin Holder
from page 48

4a



FULL SIZE PATTERN SECTION NO. 1 AUGUST 2002

Side A

Victorian Keepsake Boxfrom page 22
 Rhinocerosfrom page 46
 A Ducky Napkin Holderfrom page 48
 Cats on the Wall Key Rackfrom page 62

Side B

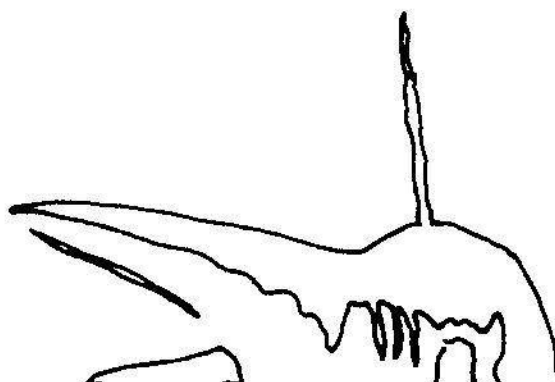
Swamp Landfrom page 6
 The Making of a Strawberry
 Trivet from Corian® and Inlaidfrom page 32
 Girl with Flowing Hairfrom page 36
 Carve an Egg and Dart
 Patternfrom page 40
 Carve a Dachshundfrom page 42
 Sign of Faith Desk Clockfrom page 58
 Gorillafrom page 60

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3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m



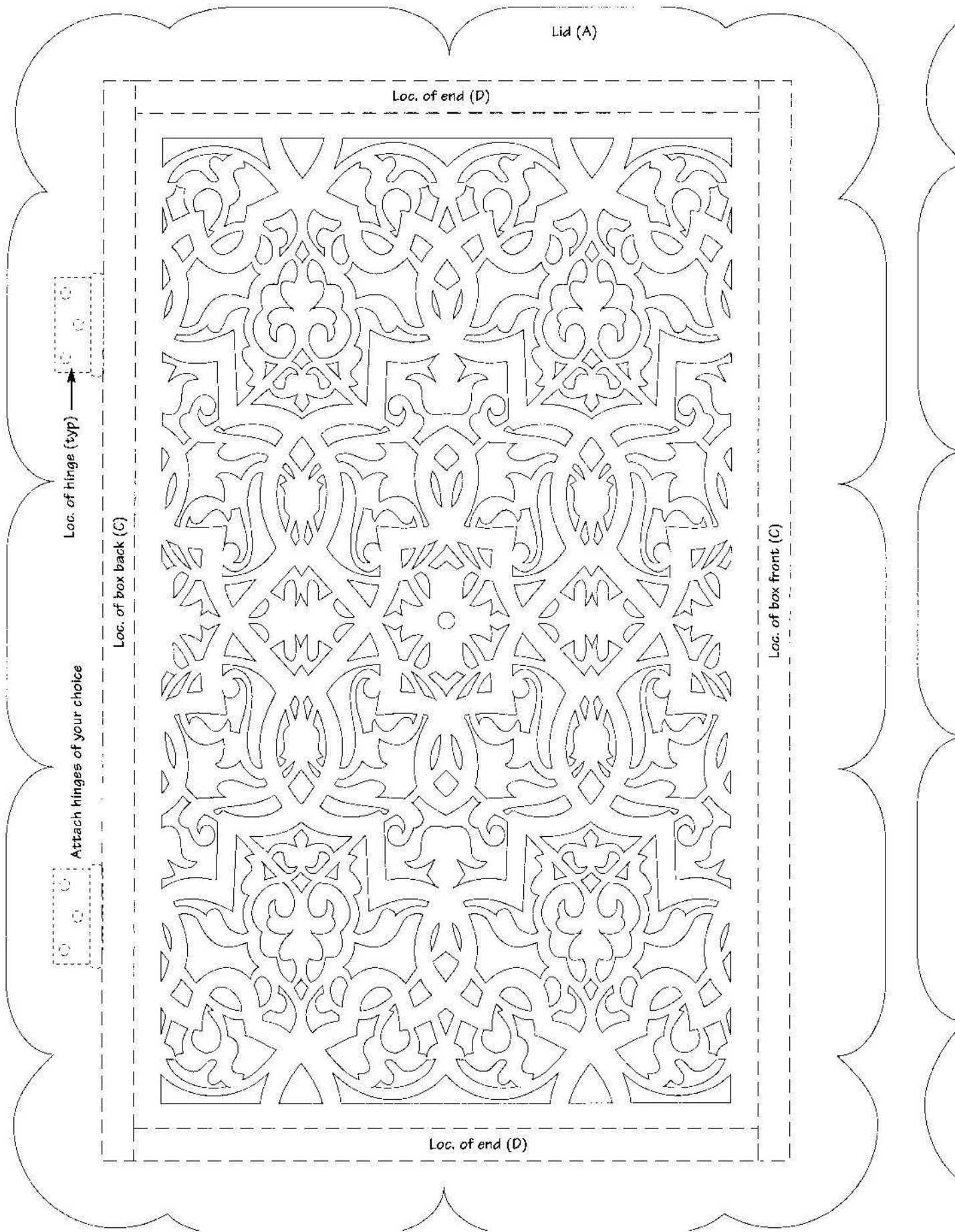
Full Size Pattern
 Rhinoceros
 from page 46



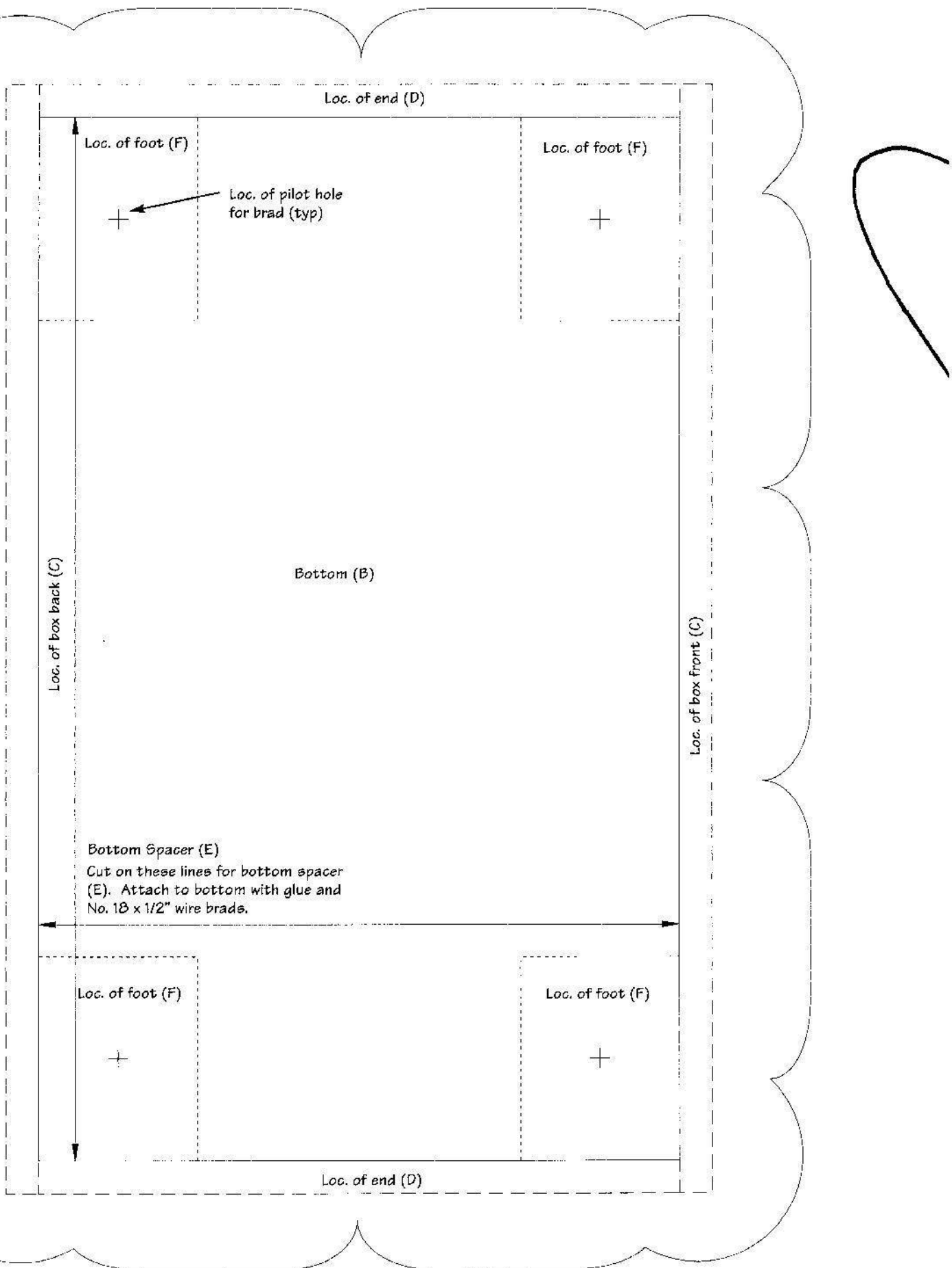
5a

Loc. of pilot hole for brad (typ)

Loc. for box or wire bands to attach
the front/back (C) to the ends (D) and
bottom spacer (E)



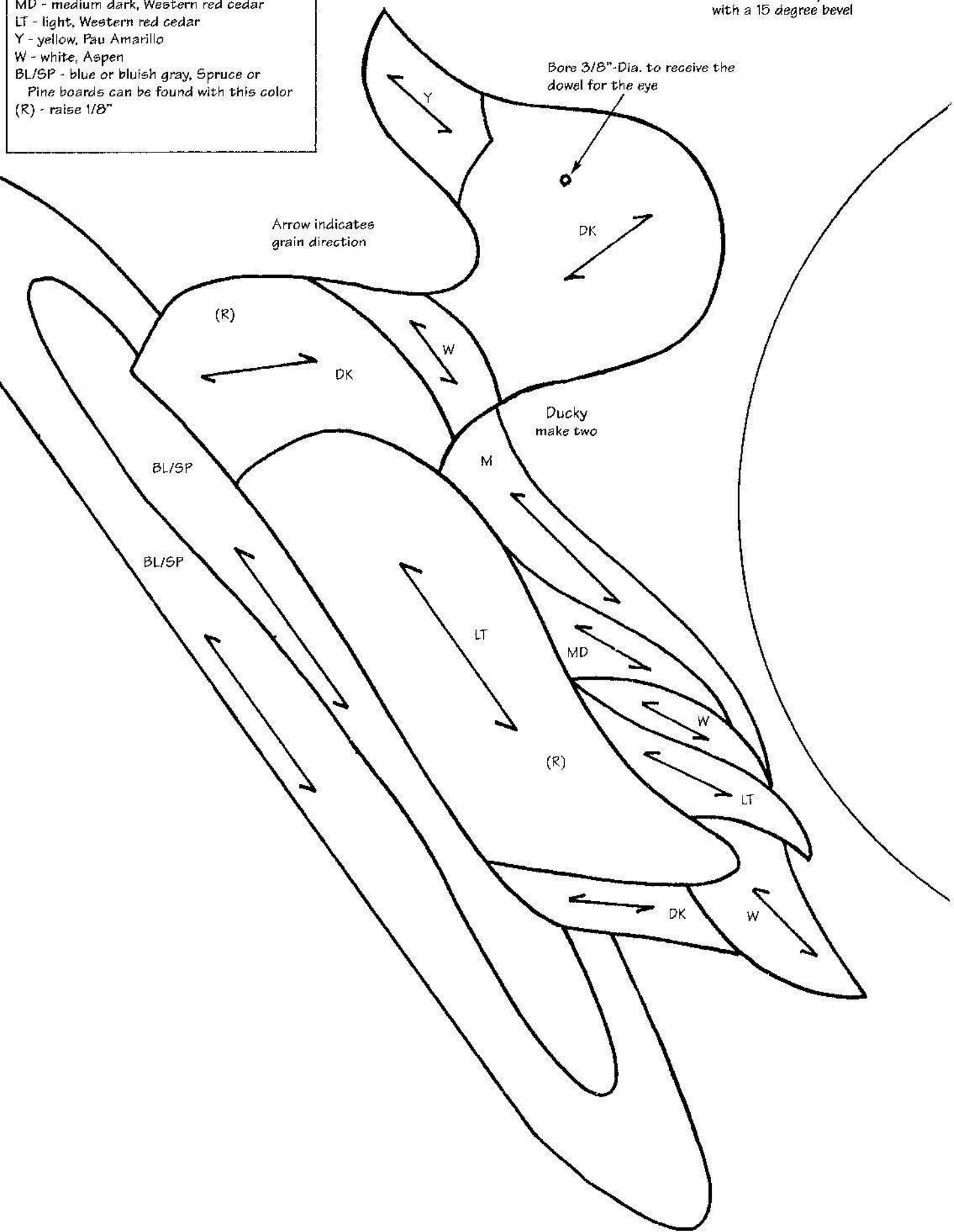
6a



DK - dark, Western red cedar
 M - medium, Western red cedar
 MD - medium dark, Western red cedar
 LT - light, Western red cedar
 Y - yellow, Pau Amarillo
 W - white, Aspen
 BL/SP - blue or bluish gray, Spruce or
 Pine boards can be found with this color
 (R) - raise 1/8"

7a

Cut around the perimeter with a 15 degree bevel



8a



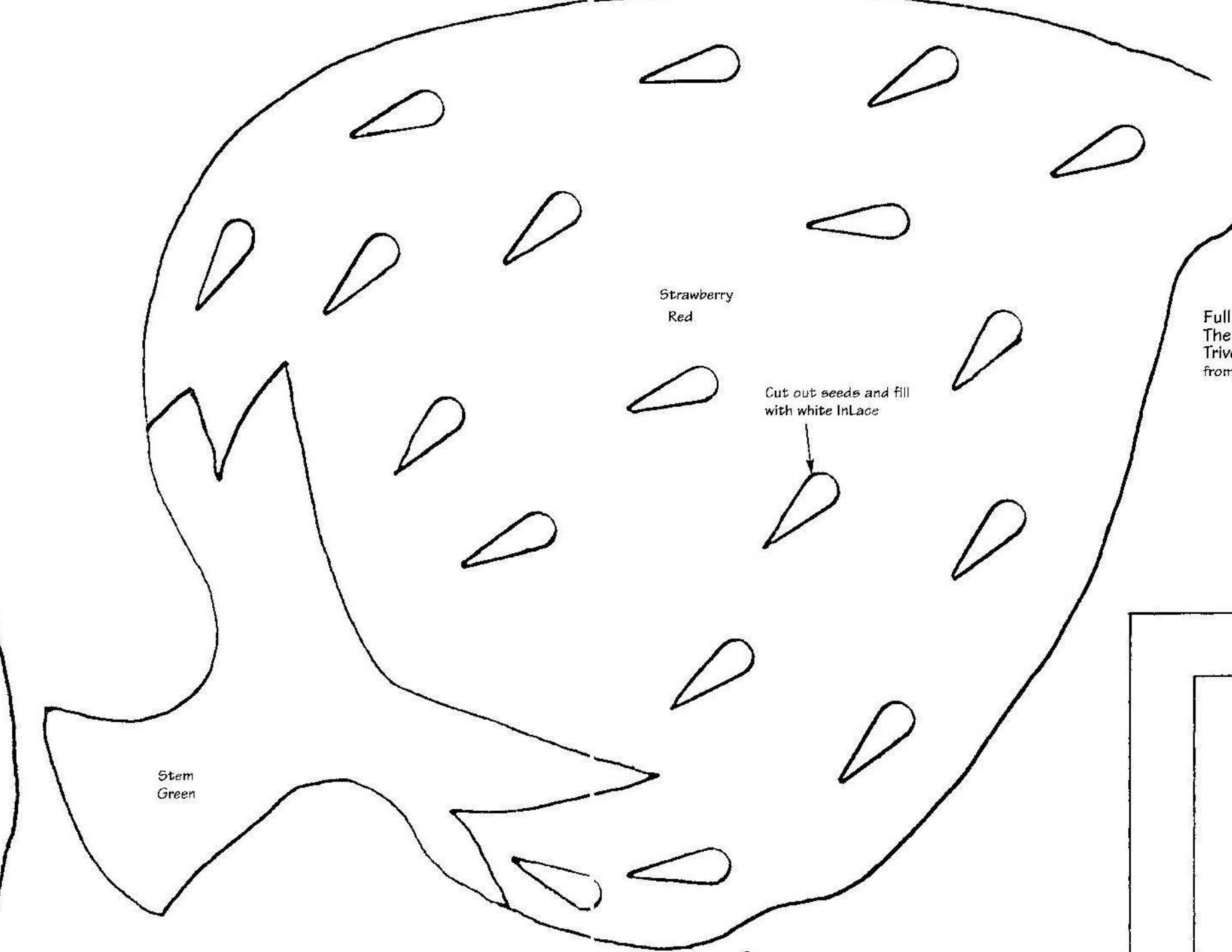
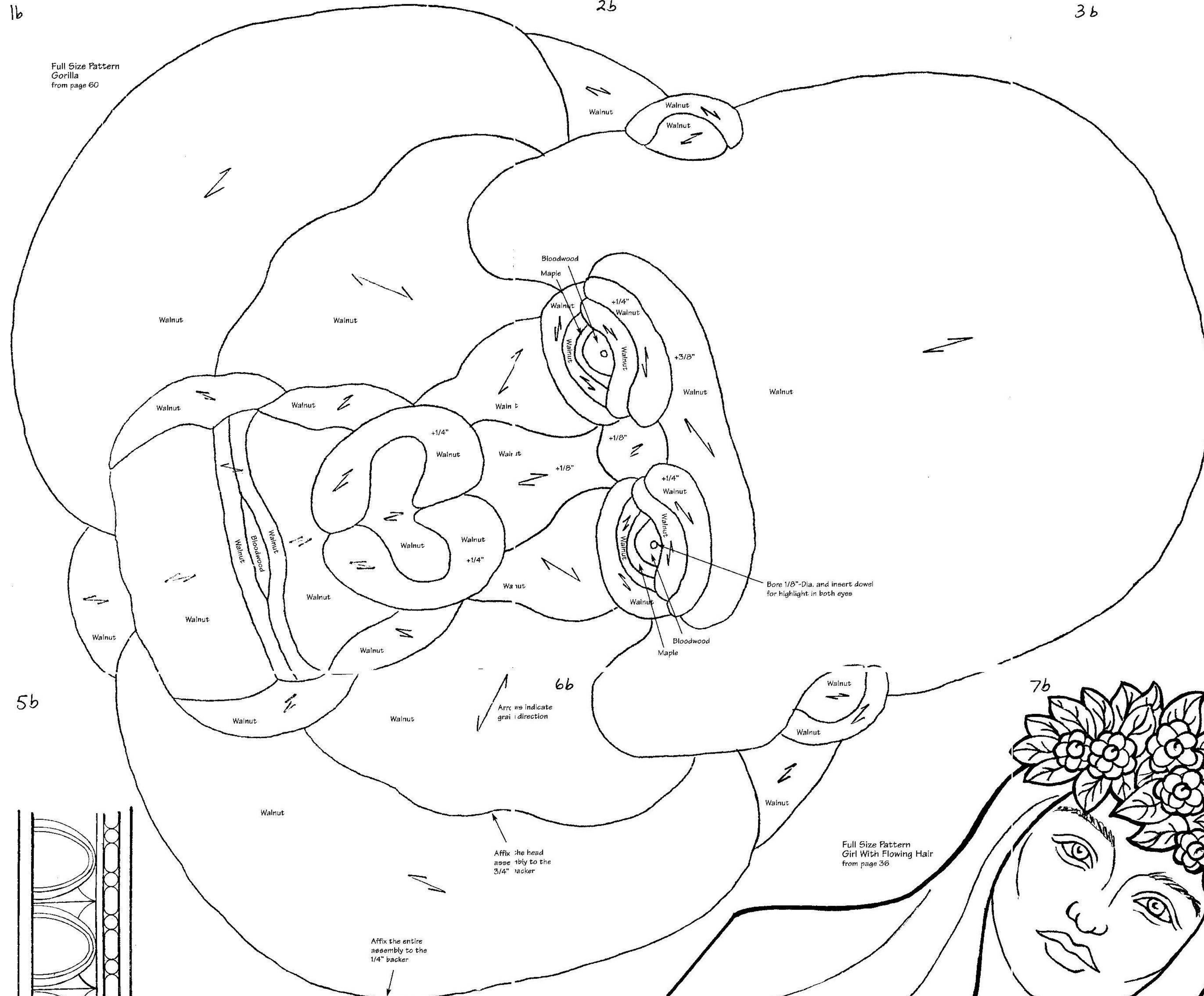
1b

2b

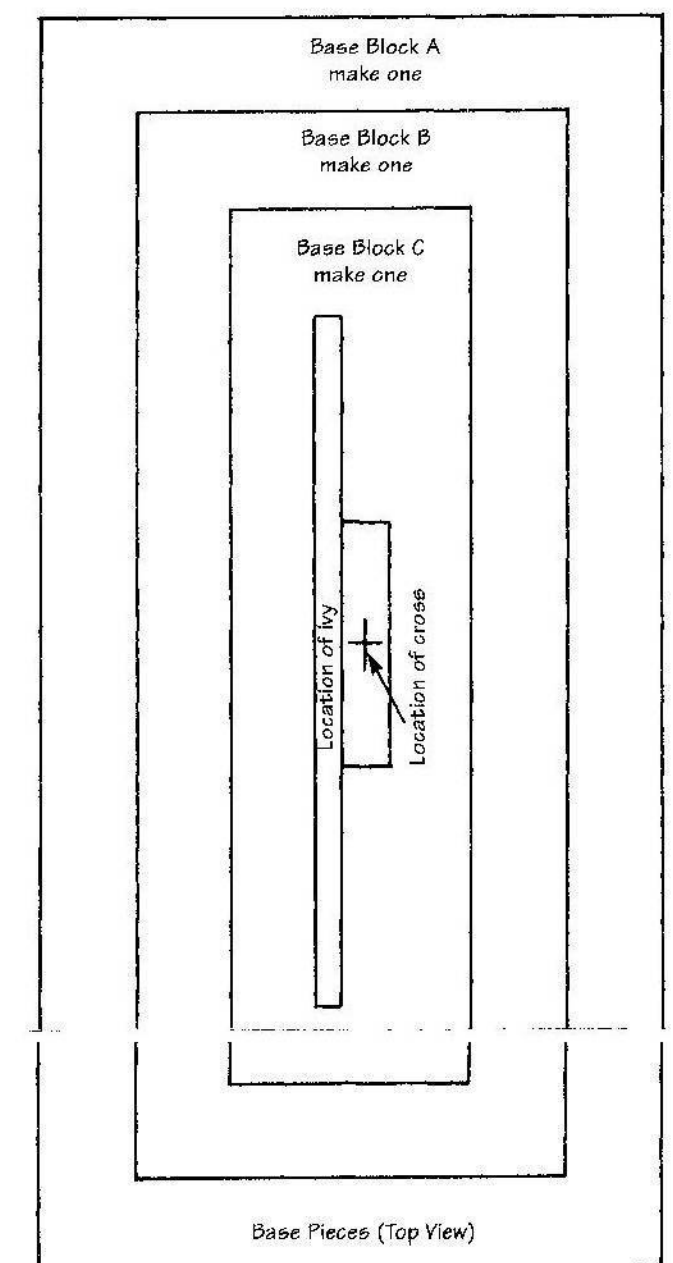
3b

4b

Full Size Pattern
Gorilla
from page 60



Full Size Pattern
The Making of a Strawberry
Trivet from Corian® and InLace
from page 32



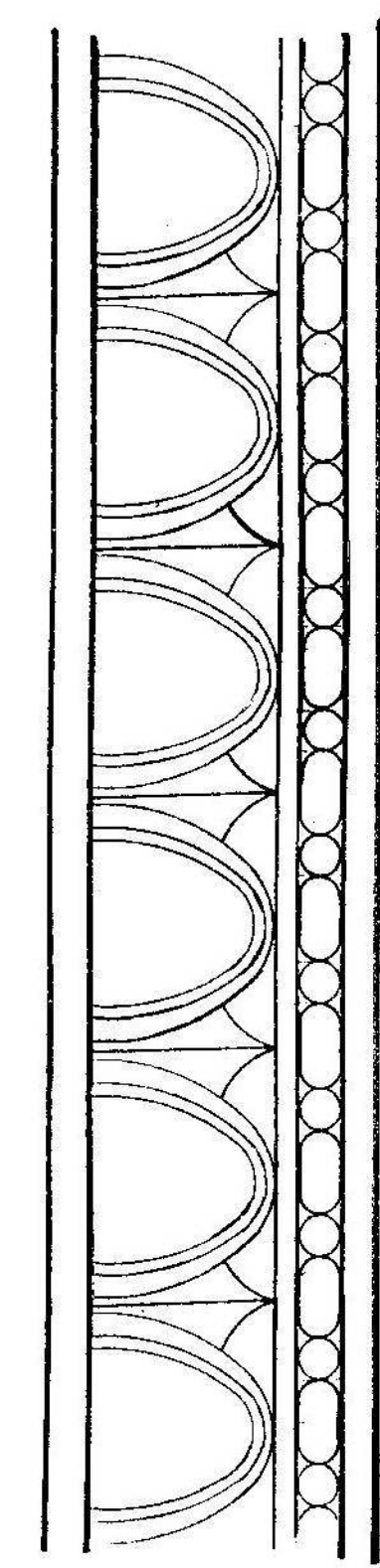
Full Size Patterns
Sign of Faith Desk Clock
from page 5B

5b

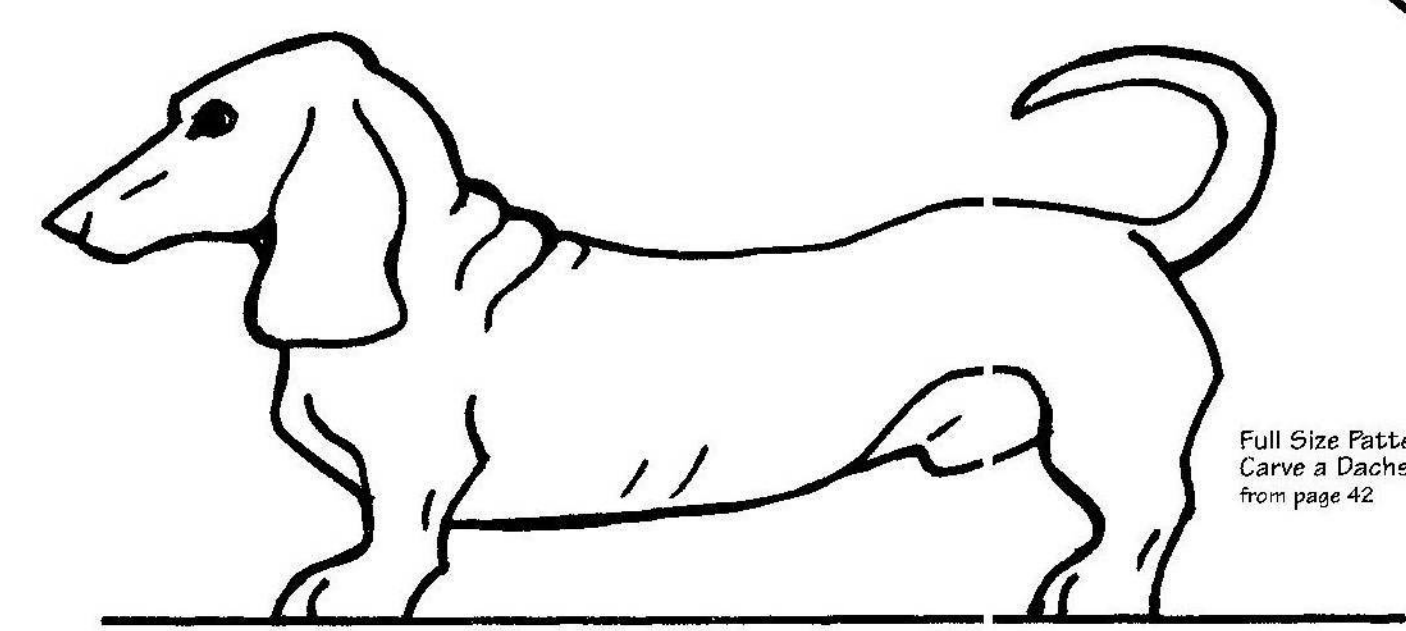
6b

7b

8b



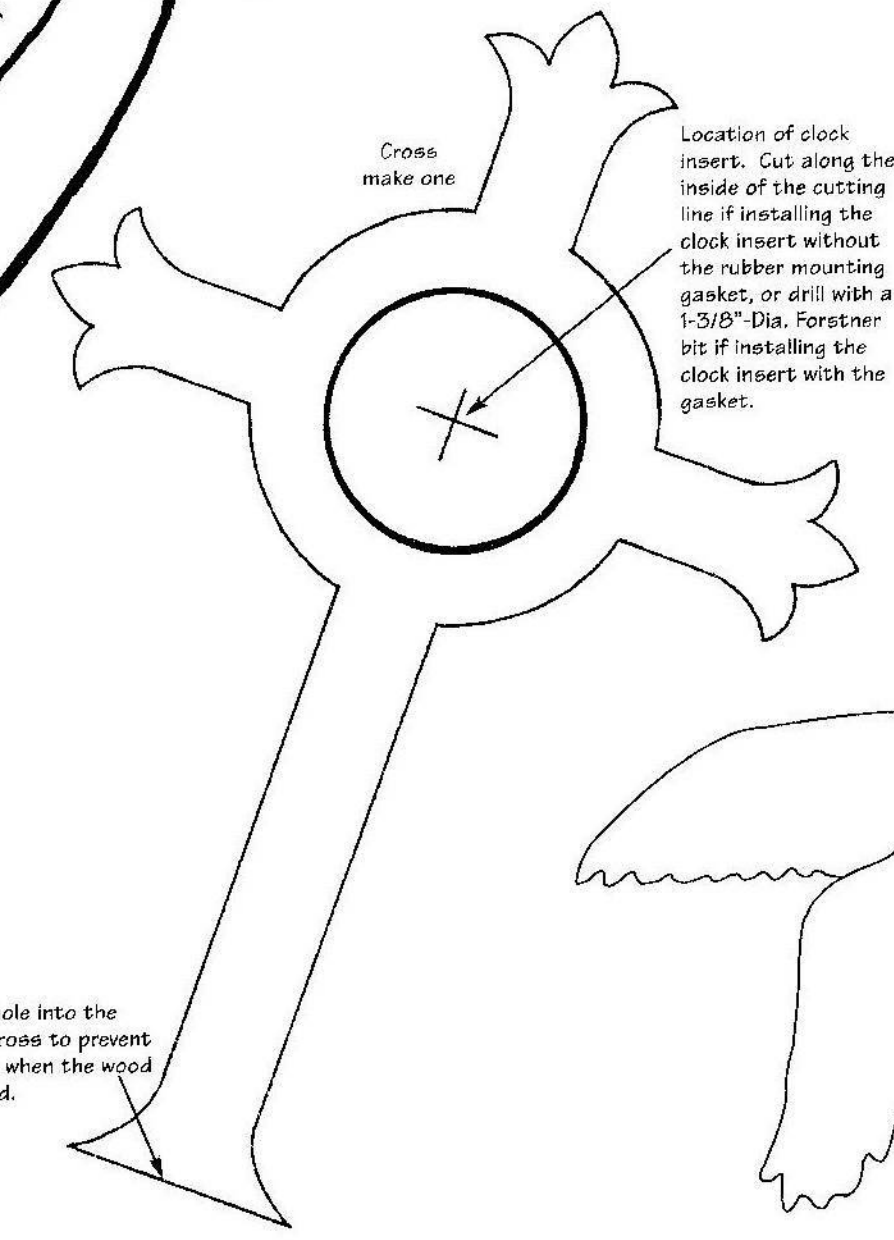
Full Size Pattern
Carve an Egg and Dart Pattern
from page 40



Full Size Pattern
Carve a Dachshund
from page 42



Full Size Pattern
Girl With Flowing Hair
from page 36

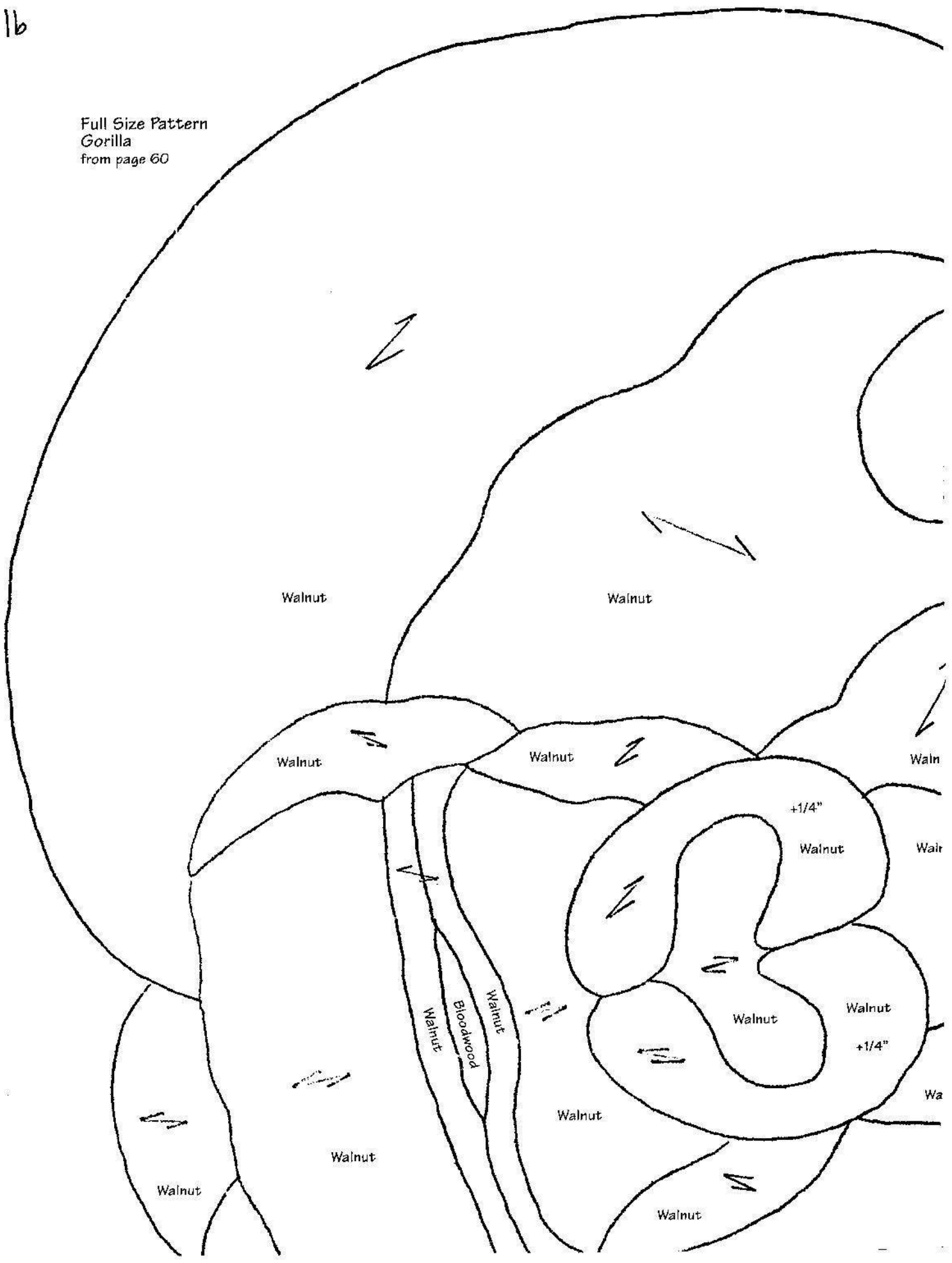


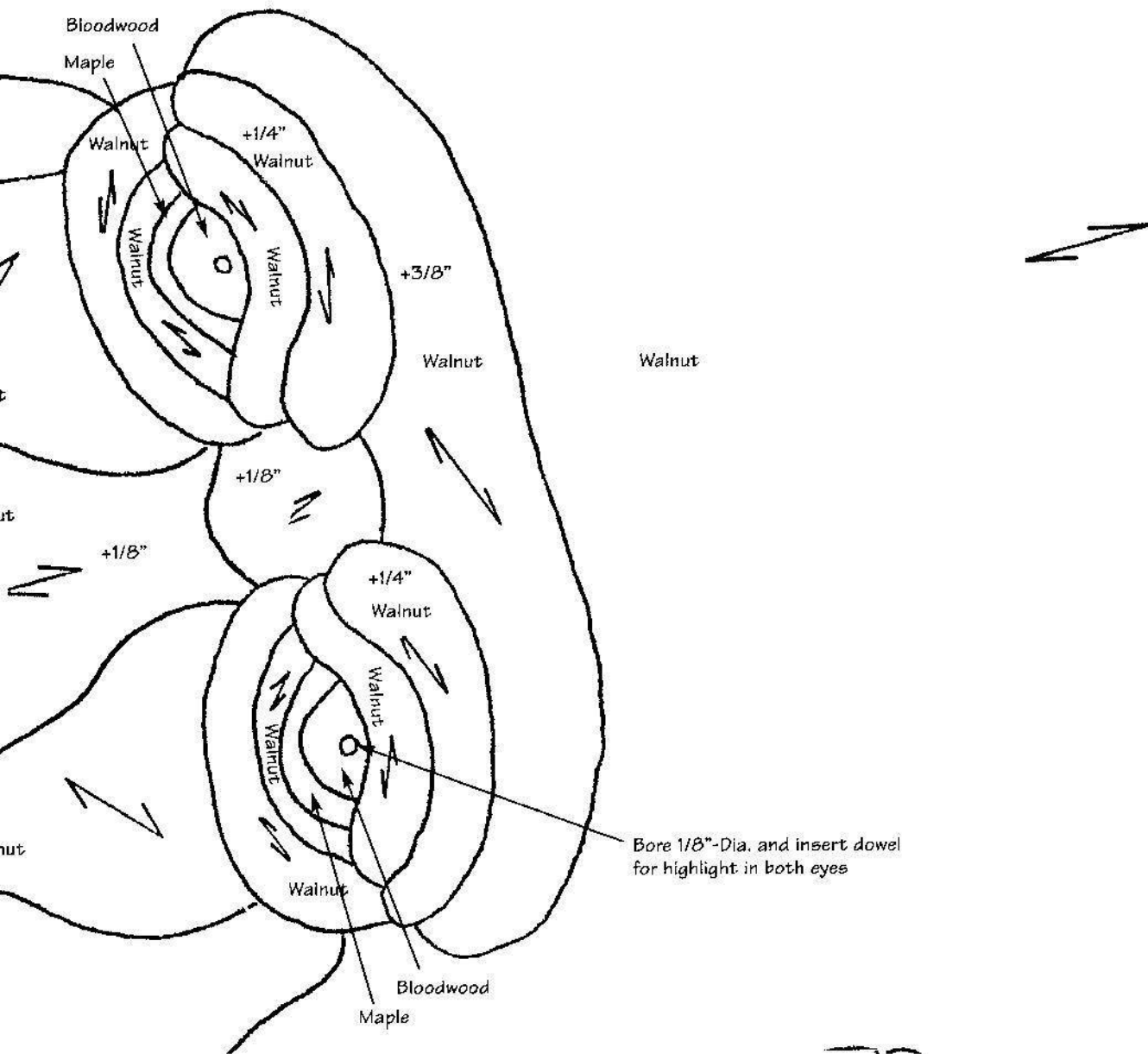
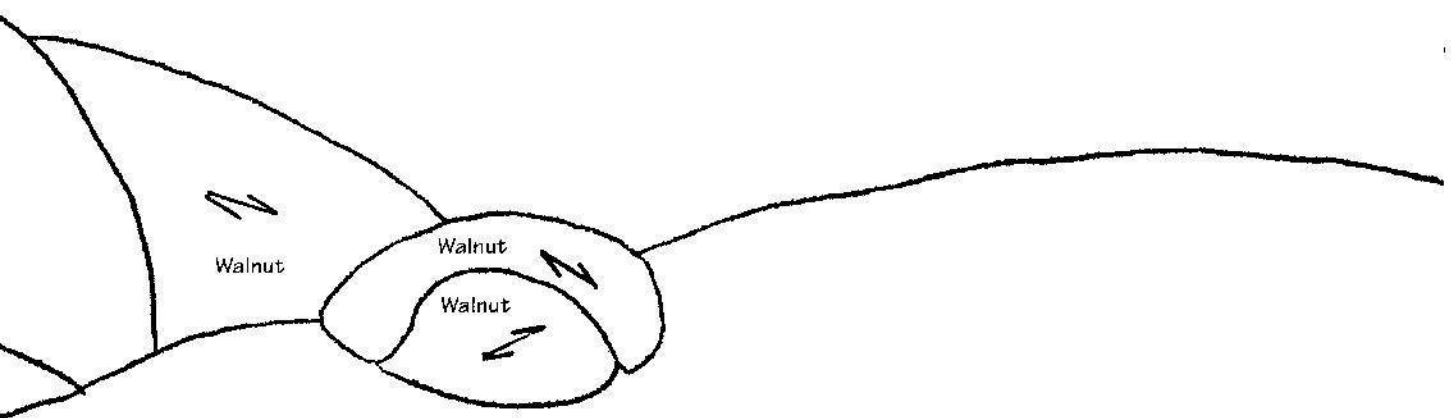
Full Size Pattern
Swamp Land
from page 6

Pre-drill a pilot hole into the
bottom of the cross to prevent
it from splitting when the wood
screw is installed.

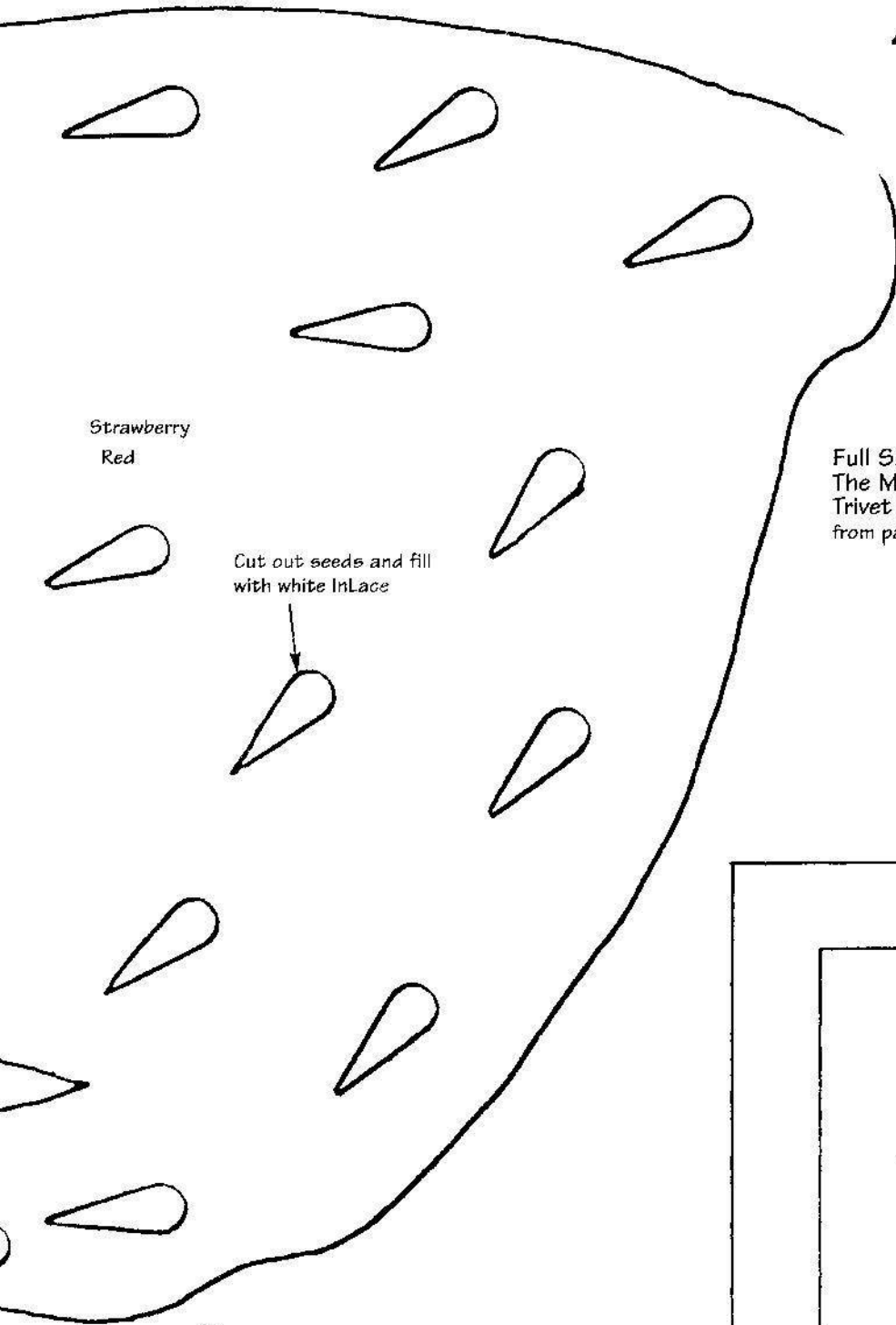
Location of clock
insert. Cut along the
inside of the cutting
line if installing the
clock insert without
the rubber mounting
gasket, or drill with a
1-3/8" Dia. Forstner
bit if installing the
clock insert with the
gasket.

Full Size Pattern
Gorilla
from page 60





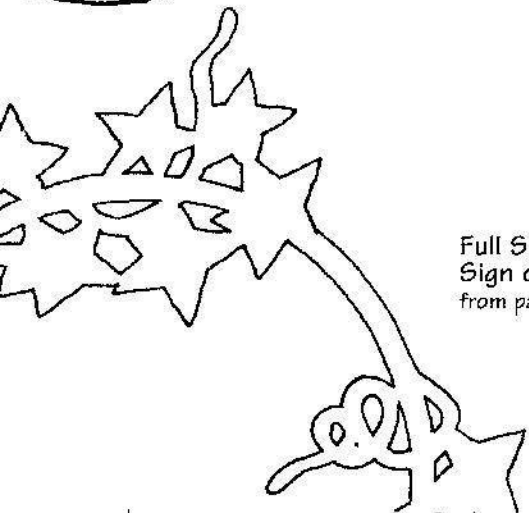




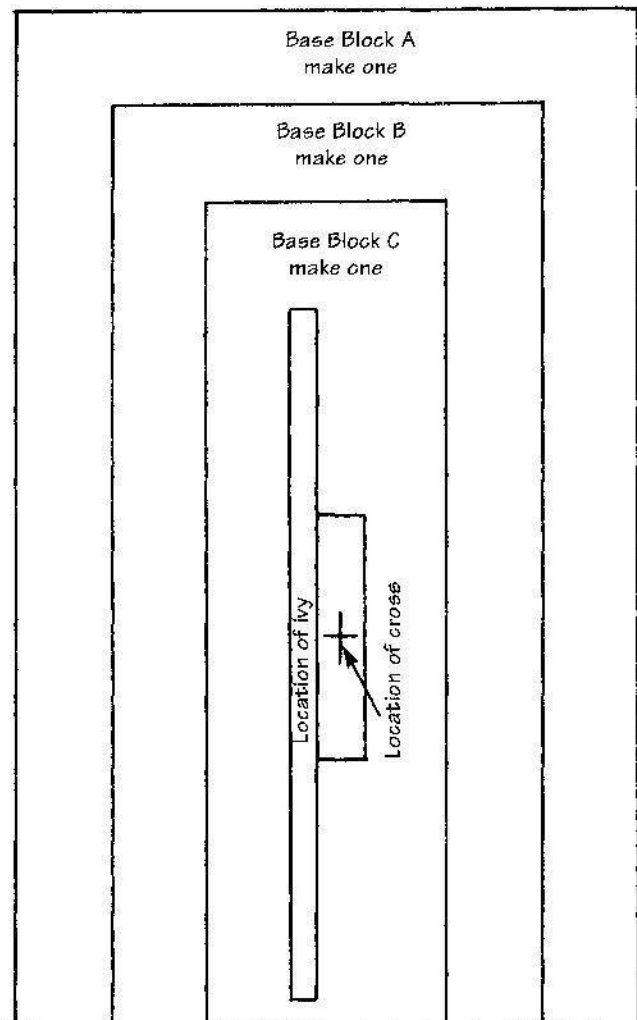
Strawberry
Red

Cut out seeds and fill
with white InLace

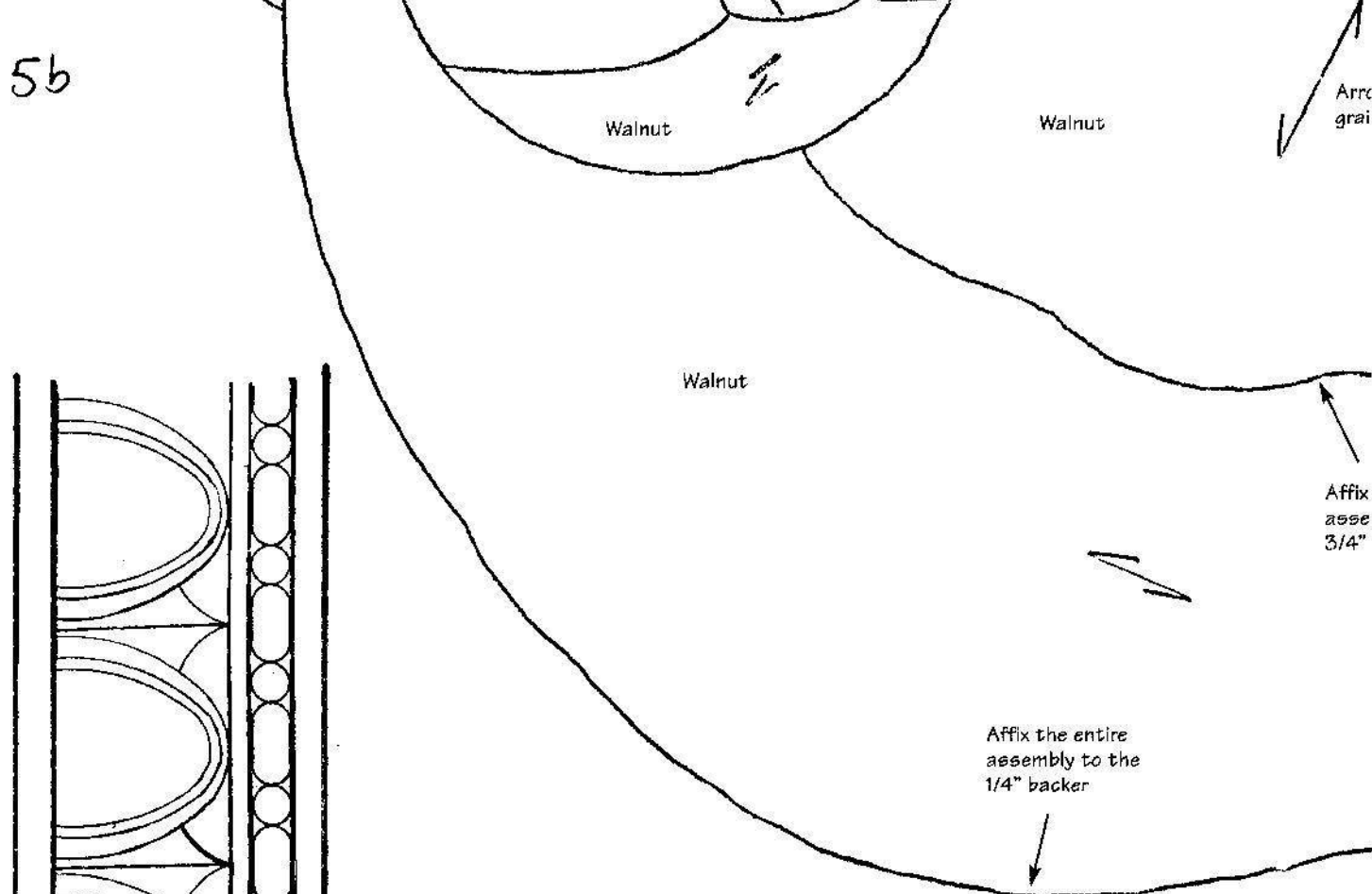
Full Size Pattern
The Making of a Strawberry
Trivet from Corian® and InLace
from page 32



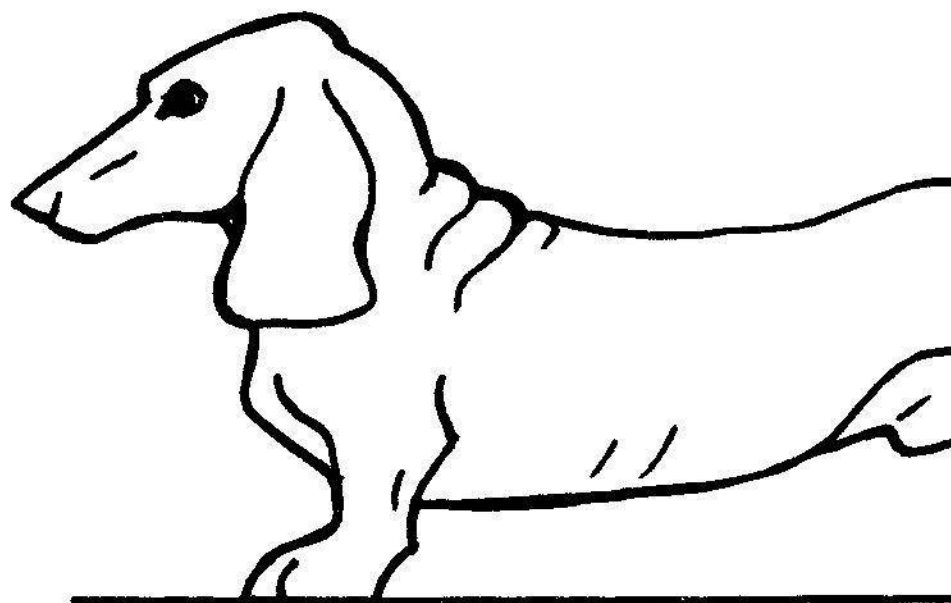
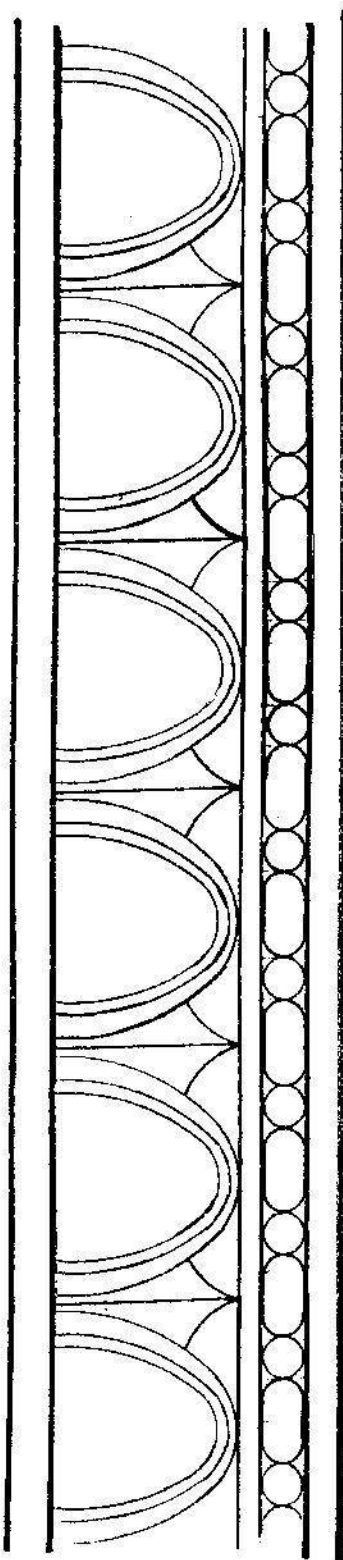
Full Size Patterns
Sign of Faith Desk Clock
from page 58



5b



Full Size Pattern
Carve an Egg and Dart Pattern
from page 40



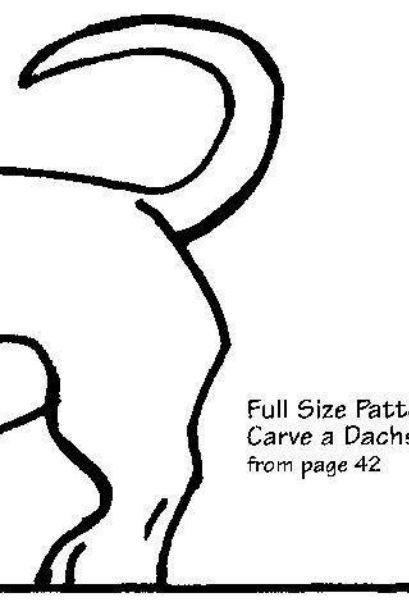
66

ws indicate
direction



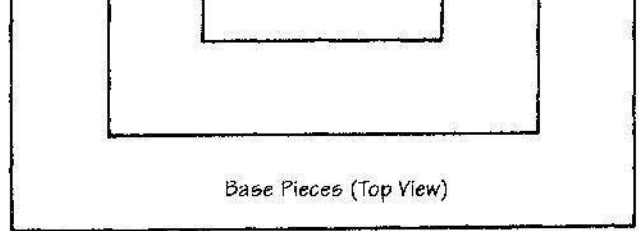
Full Size Pattern
Girl With Flowing Hair
from page 36

the head
nly to the
acker

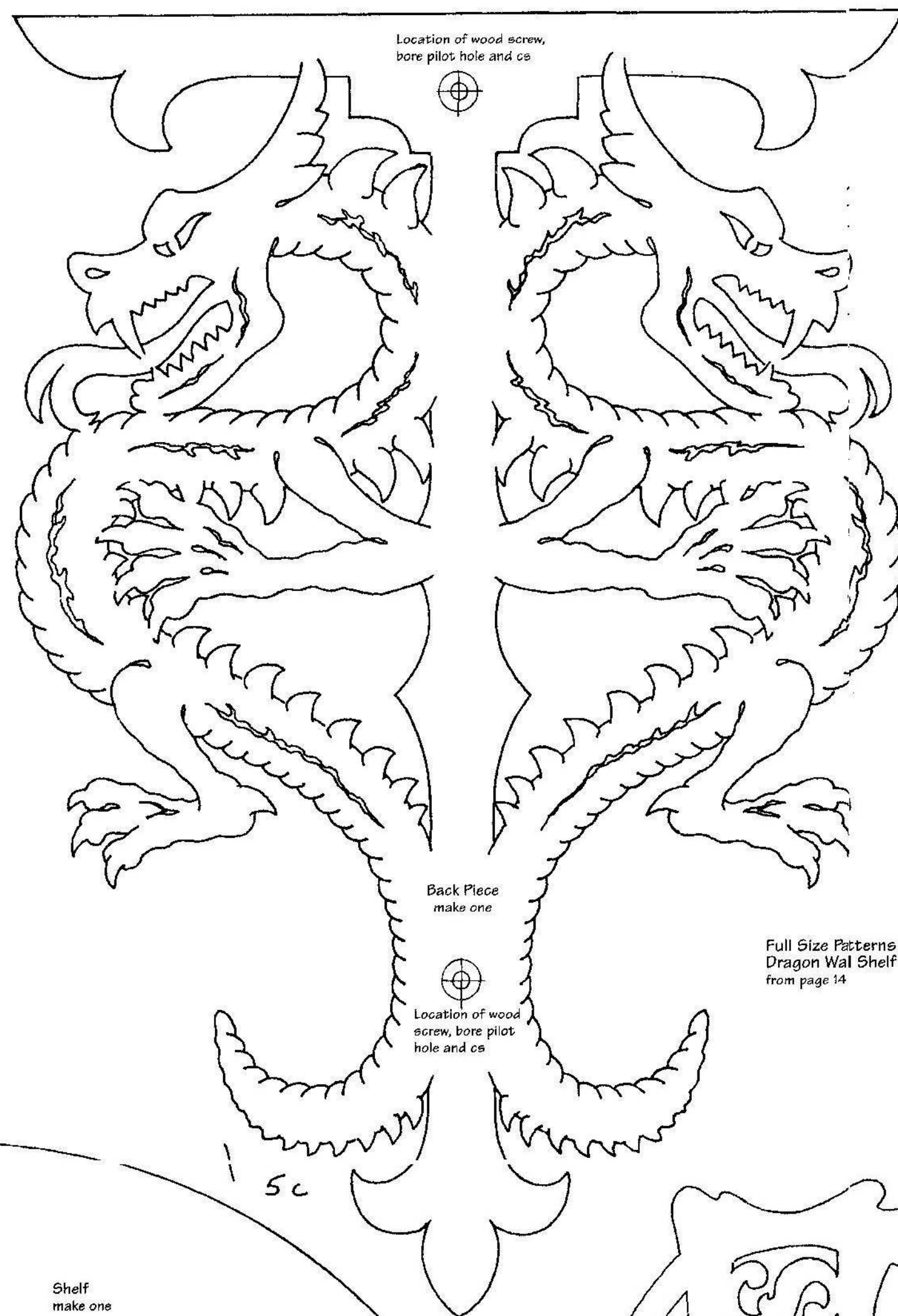


Full Size Pattern
Carve a Dachshund
from page 42

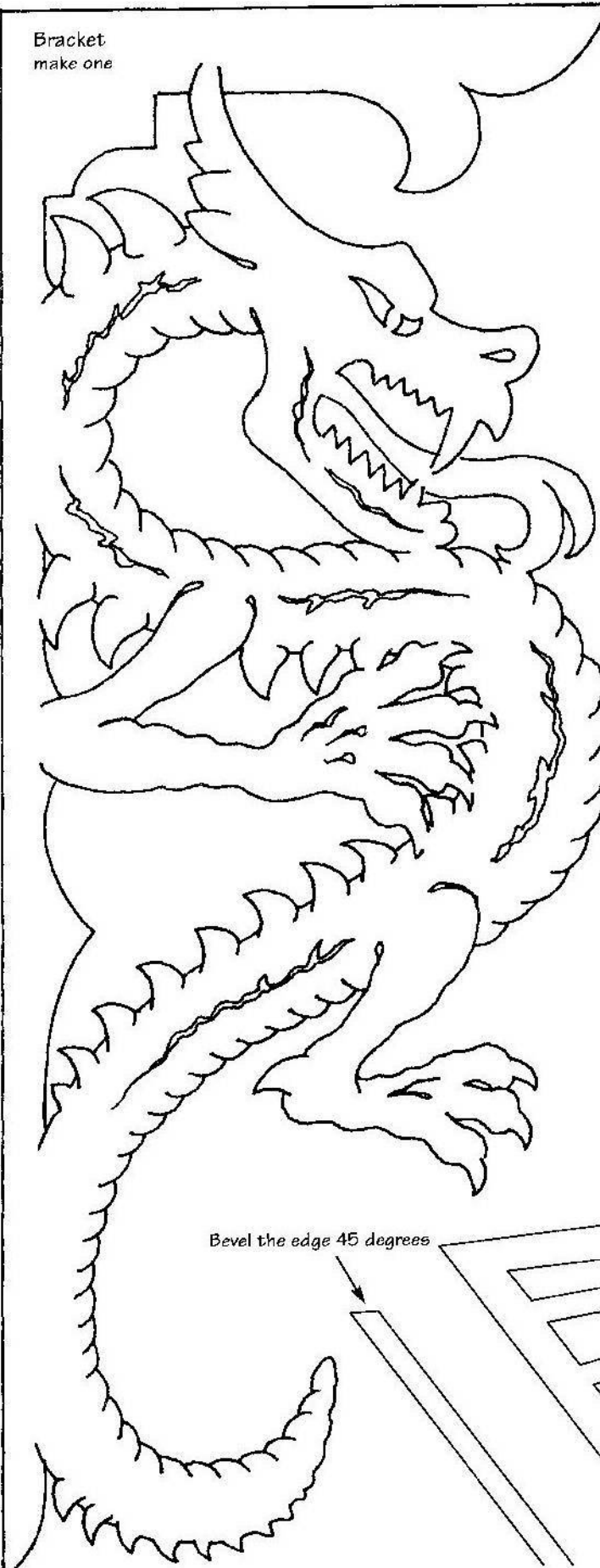




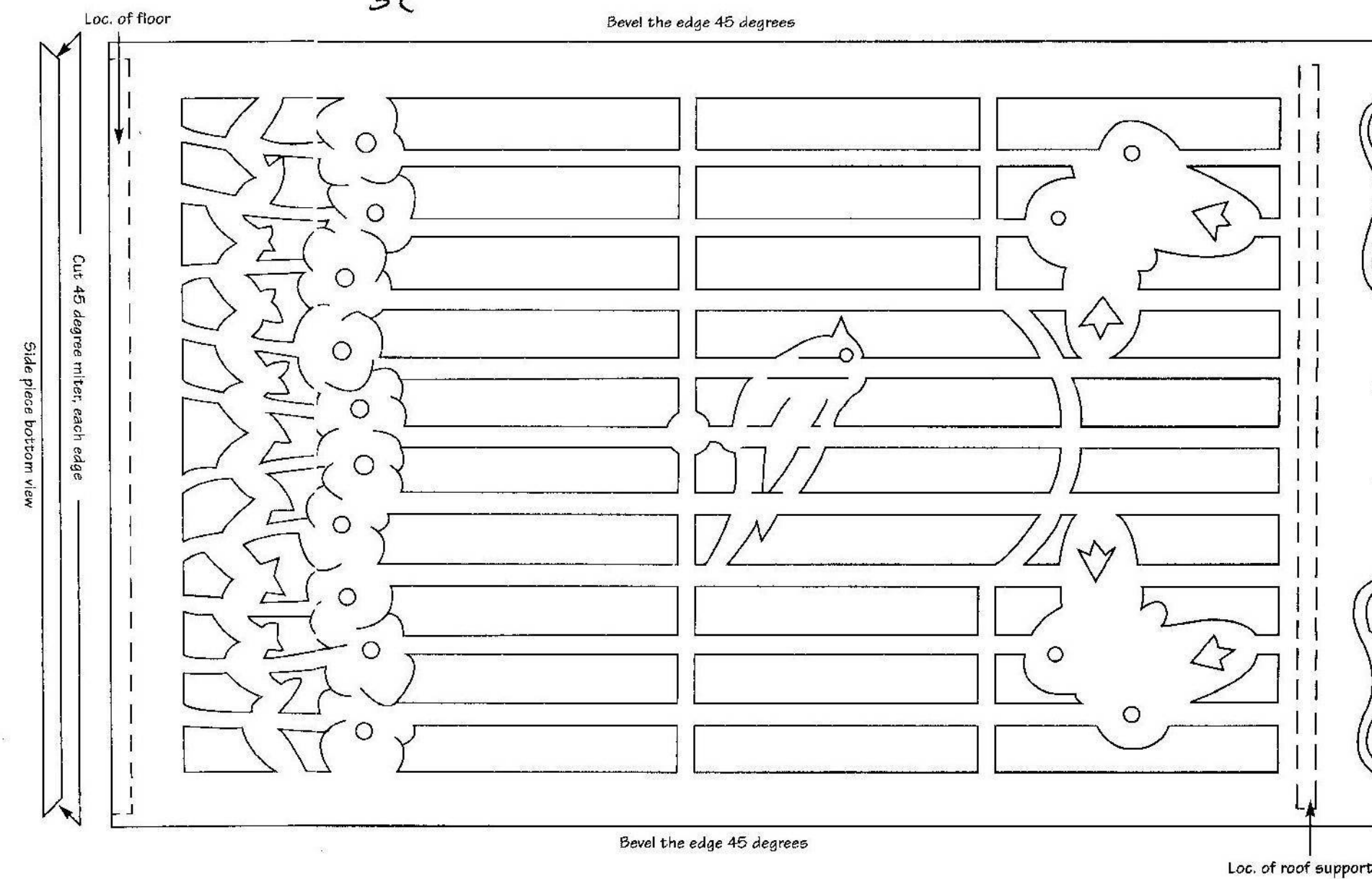
1c

Full Size Patterns
Dragon Wall Shelf
from page 14

2c

Full Size Pattern
Home Sweet Home Wall Clock
from page 44

3c

Full Size Pattern
Bird Cage
from page 63

Bevel the edge 45 degrees

Roof Pieces make four

Bevel the edge 45 degrees

Roof edge view

Full Size Pattern
Indian Chief Clock
from page 8

Bore 2-3/8" Dia. thru to receive the insert

Bevel the edge 45 degrees

Bevel the bottom 60 degrees

Roof bottom view

Location of clock insert, bore or cut 2-3/8" Dia. hole

4c

Cage sides make four



FULL SIZE PATTERN SECTION NO. 2 AUGUST 2002

Side A
 Indian Chief Clock from page 8
 Fawns from page 12
 Dragon Wall Shelf from page 14
 Home Sweet Home
 Wall Clock from page 44
 Bird Cage from page 63

Metric Conversions:

1 inch = 25.4mm = 2.54cm = 0.0254m

Common Measurements:

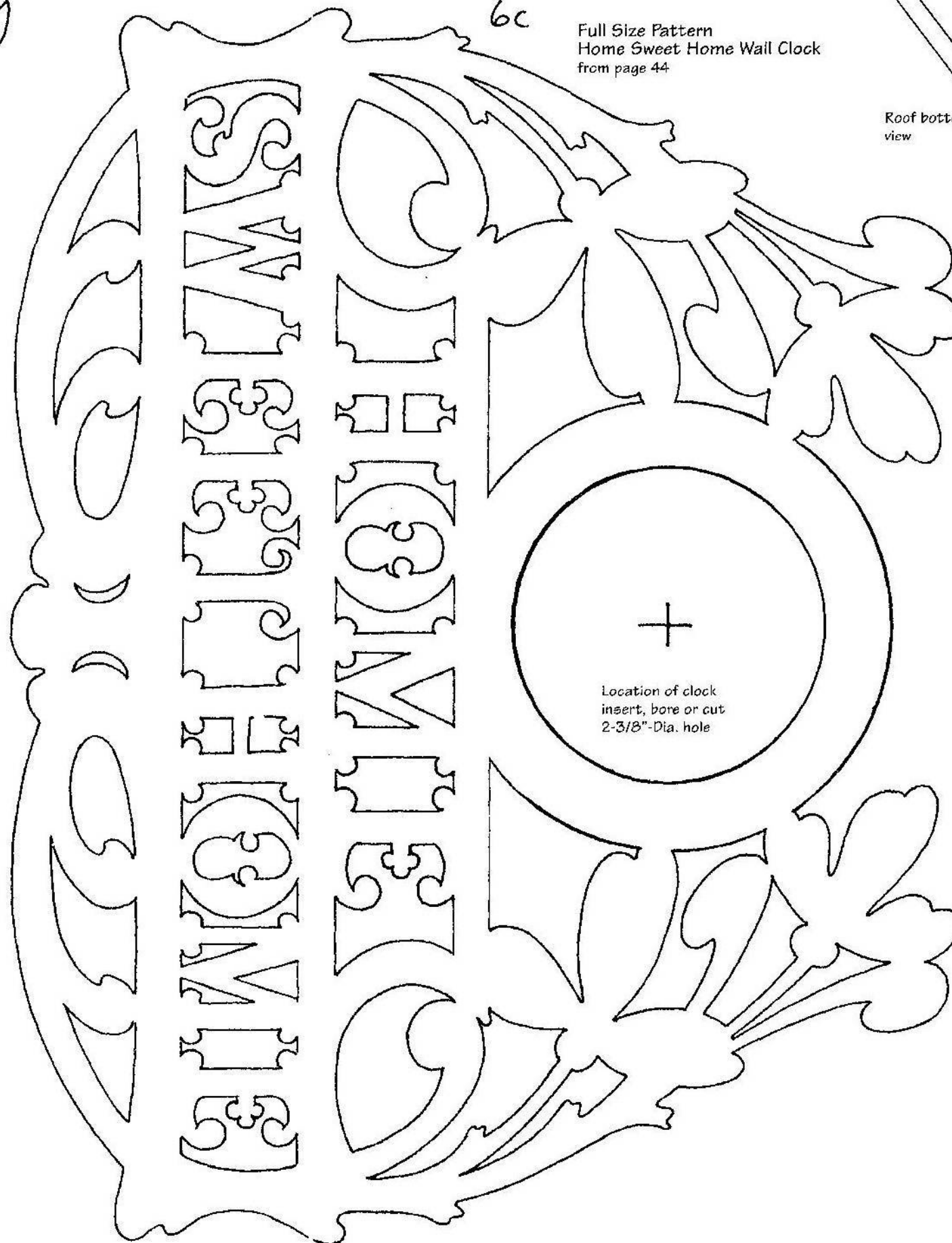
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7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	45" = 114.3cm
4" = 10.16cm	60" = 152.4cm

Side B
 Intarsia Tiger from page 16
 Hot Rod Shelves from page 51

Full Size Pattern
Fawns
from page 12

8c

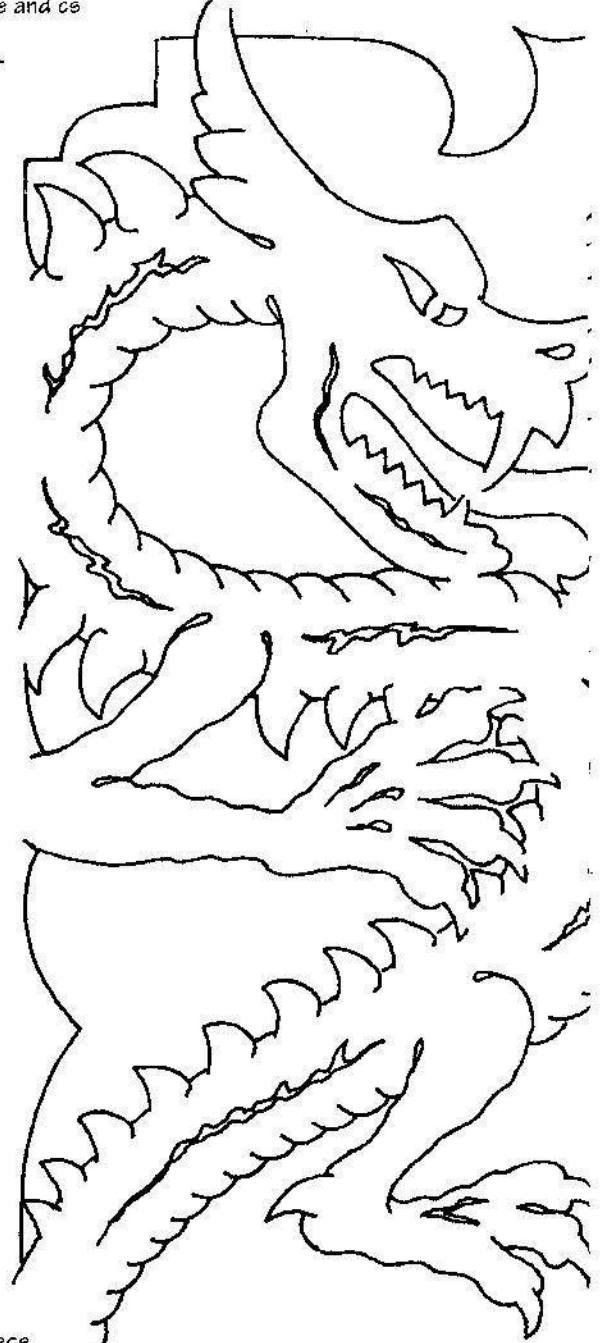
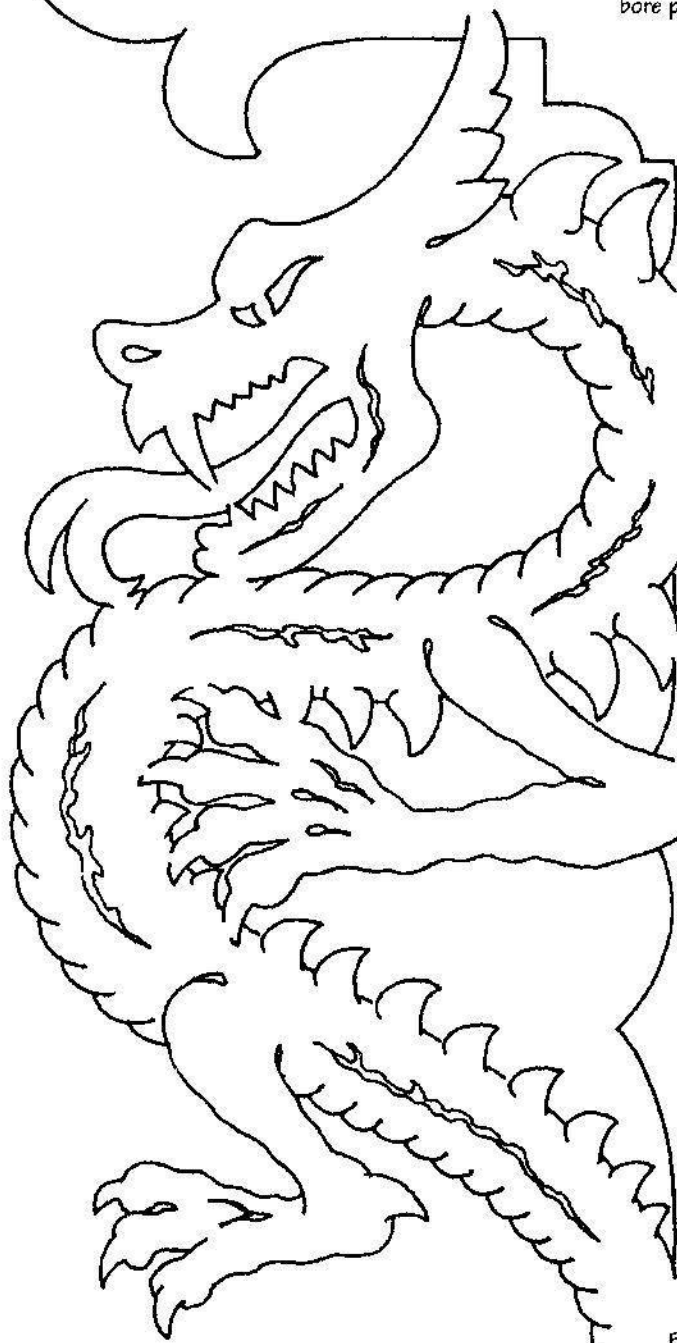
Shelf make one



6c

7c

Location of wood screw,
bore pilot hole and cs



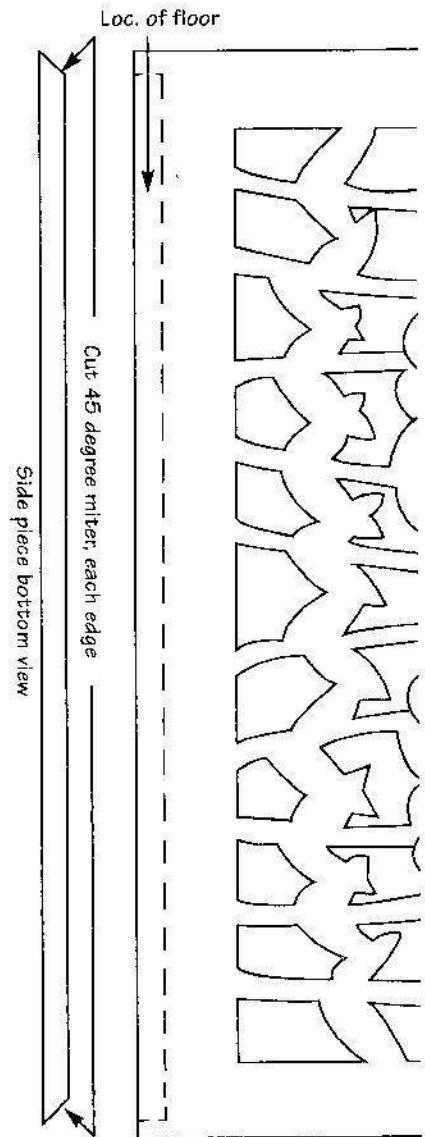
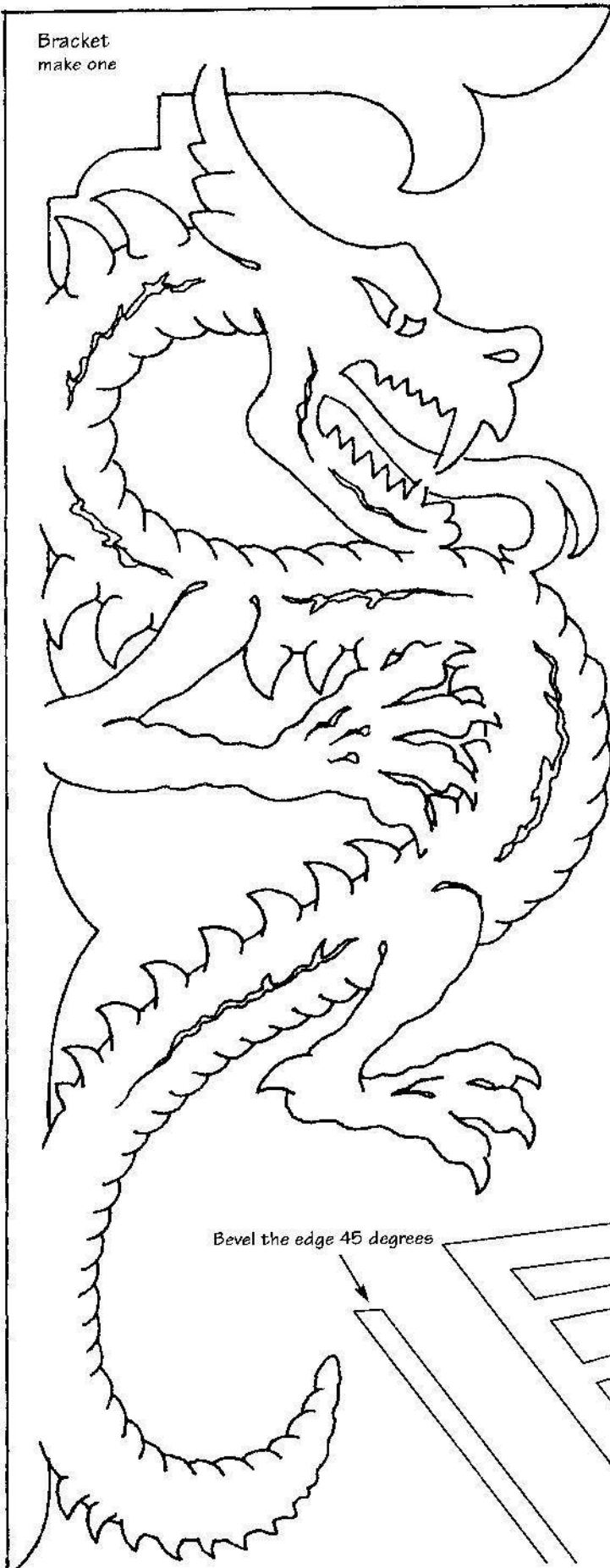
Back Piece
make one



Location of wood
screw, bore pilot
hole and cs

Full Size Pa
Dragon Wal
from page 14

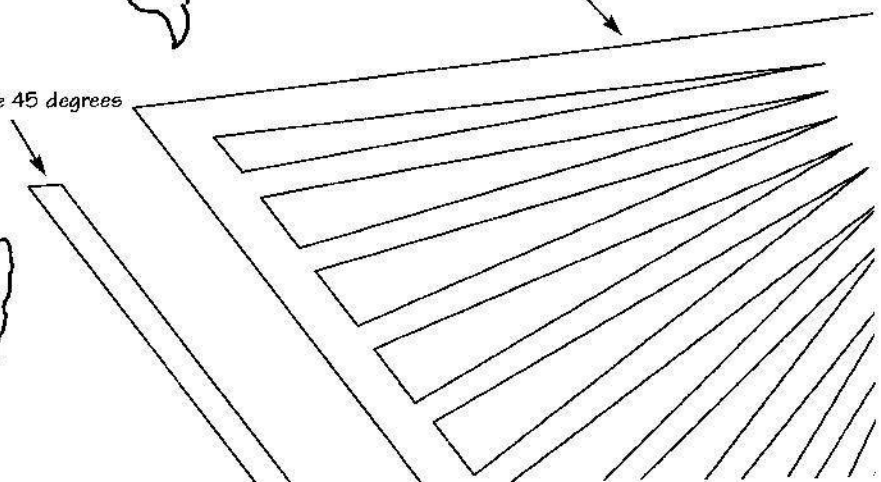
Bracket
make one

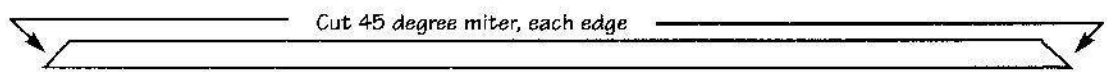
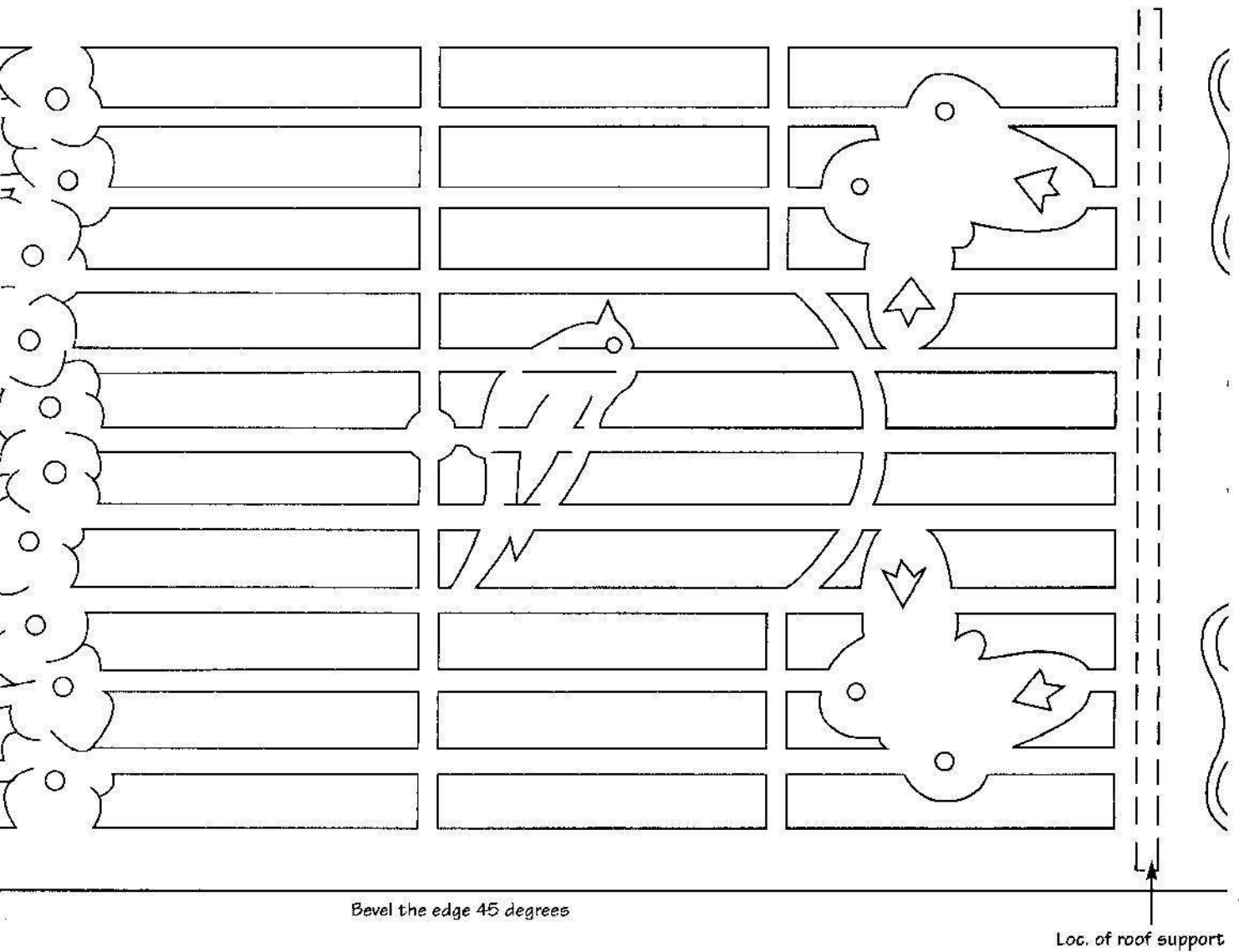


Full Size Pattern
Bird Cage
from page 63

Bevel the edge 45 degrees

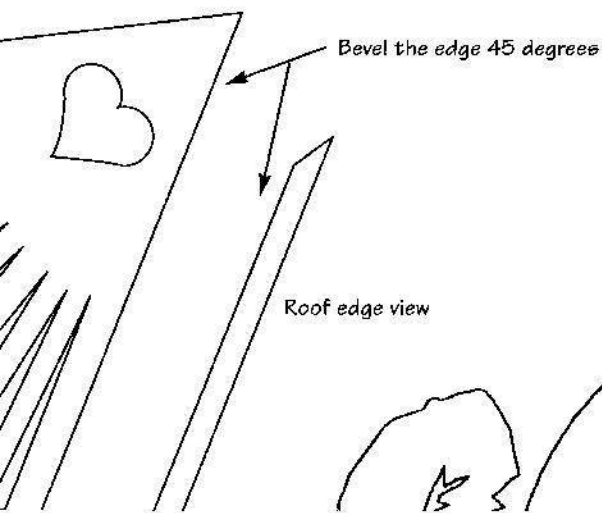
Bevel the edge 45 degrees



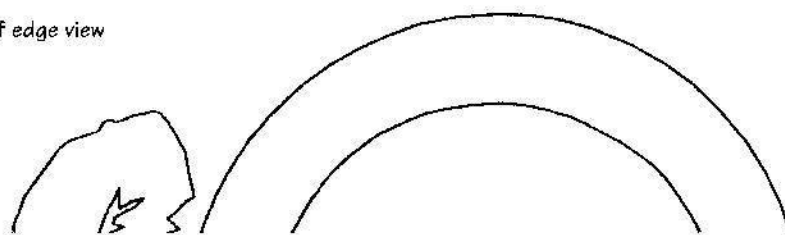


Roof Pieces
make four

Roof support
make four



Full Size Pattern
Indian Chief Clock
from page 8



Cage sides
make four



FULL SIZE PATTERN SECTION NO. 2 AUGUST 2002

Side A

Indian Chief Clockfrom page 8
 Fawnsfrom page 12
 Dragon Wall Shelffrom page 14
 Home Sweet Home
 Wall Clockfrom page 44
 Bird Cagefrom page 63

Side B

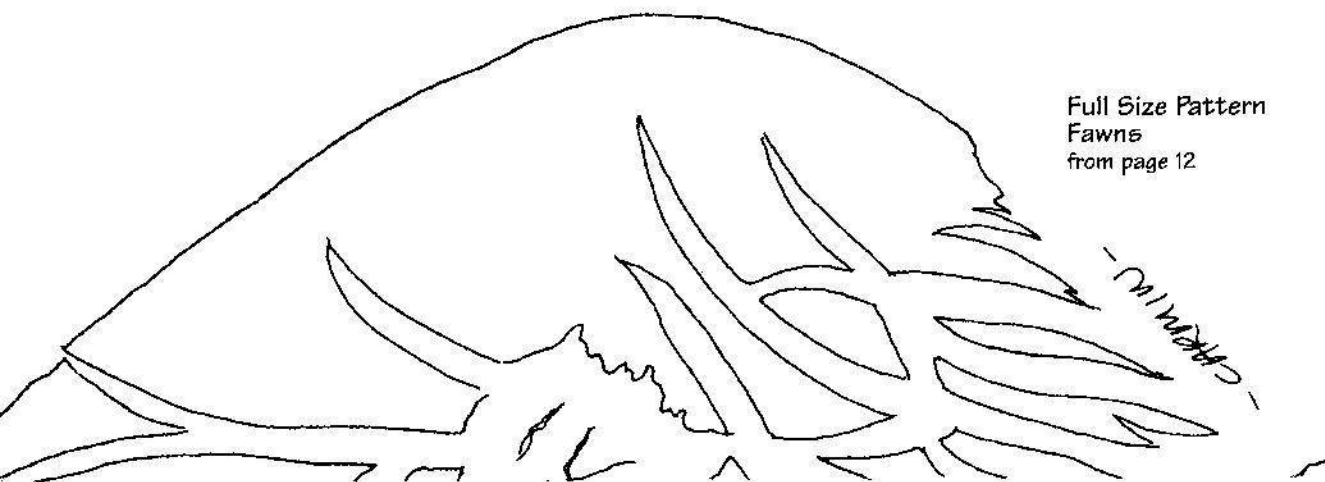
Intarsia Tigerfrom page 16
 Hot Rod Shelvesfrom page 51

Metric Conversions:

1 inch = 25.4mm = 2.54cm = 0.0254m

Common Measurements:

1/16" = 1.59mm	5" = 12.70cm
1/8" = 3.18mm	6" = 15.24cm
1/4" = 6.35mm	7" = 17.78cm
3/8" = 9.53mm	8" = 20.32cm
1/2" = 1.27cm	9" = 22.86cm
5/8" = 1.59cm	10" = 25.40cm
3/4" = 1.91cm	11" = 27.94cm
7/8" = 2.22cm	12" = 30.48cm
1" = 2.54cm	24" = 60.96cm
2" = 5.08cm	36" = 91.44cm
3" = 7.62cm	45" = 1.14m
4" = 10.16cm	60" = 1.52m

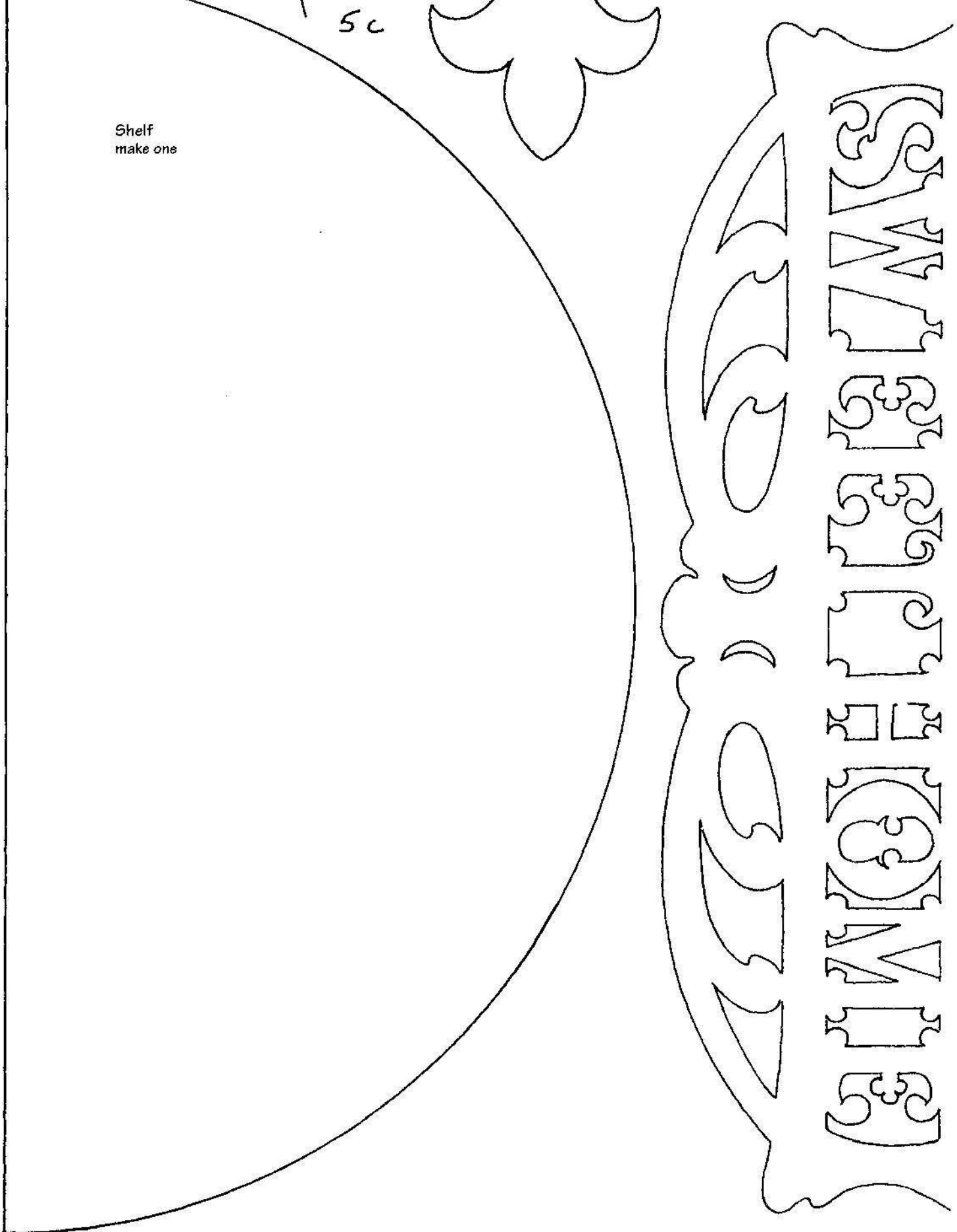


Full Size Pattern
 Fawns
 from page 12

5c

Shelf
make one

SWELLER'S GOWN



6c

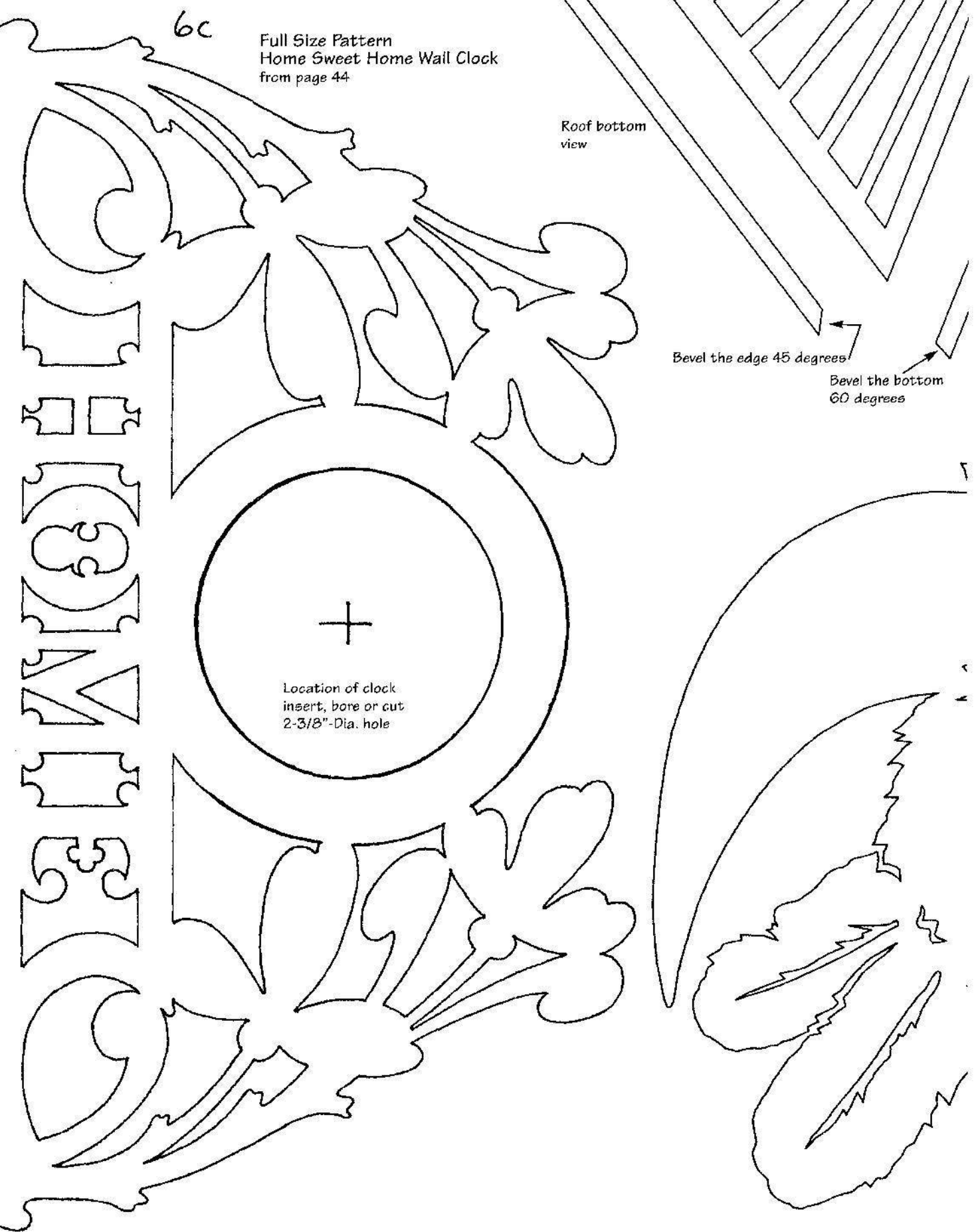
Full Size Pattern
Home Sweet Home Wall Clock
from page 44

Roof bottom
view

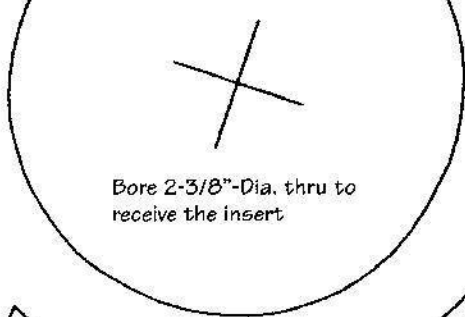
Bevel the edge 45 degrees

Bevel the bottom
60 degrees

Location of clock
insert, bore or cut
2-3/8"-Dia. hole



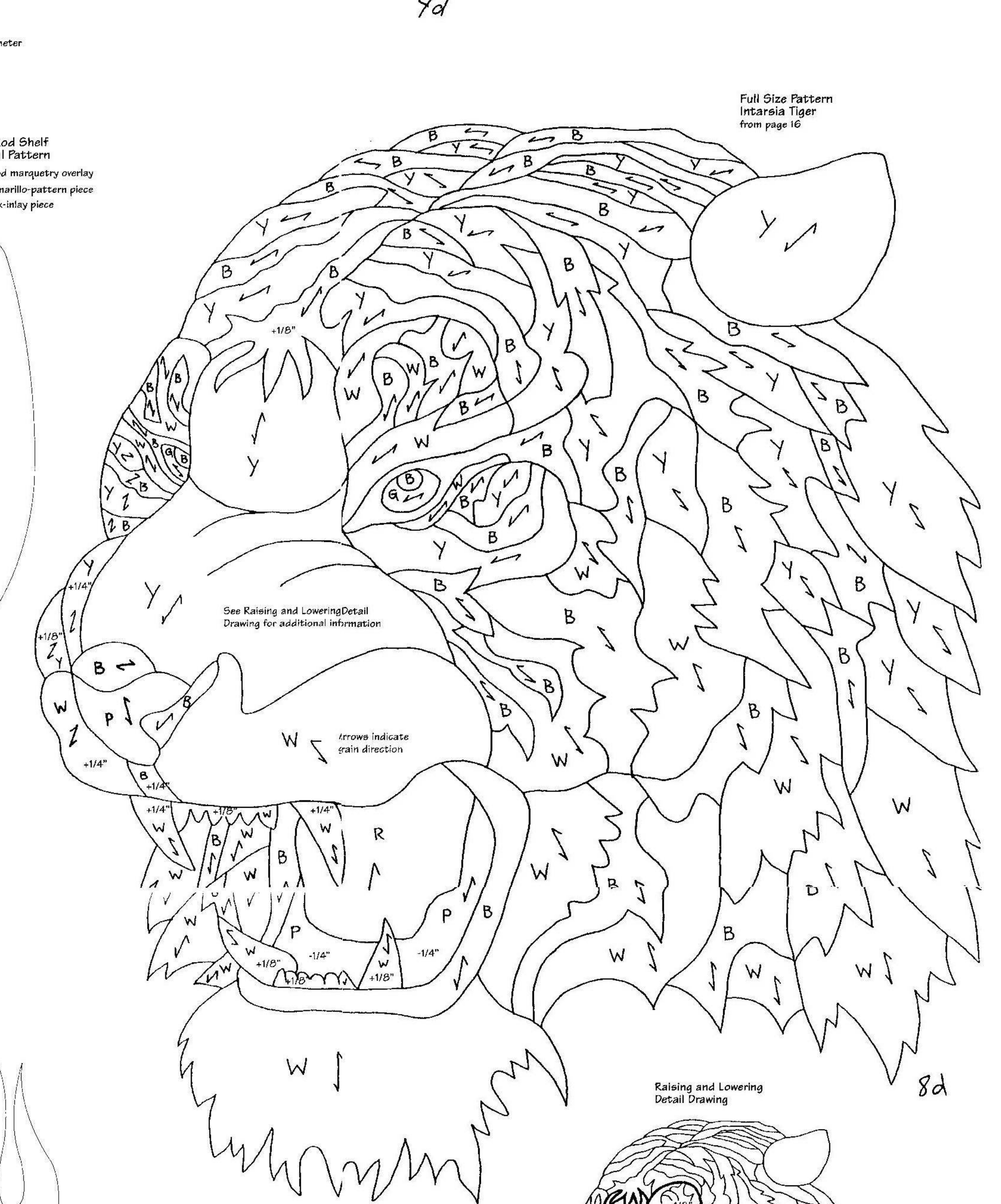
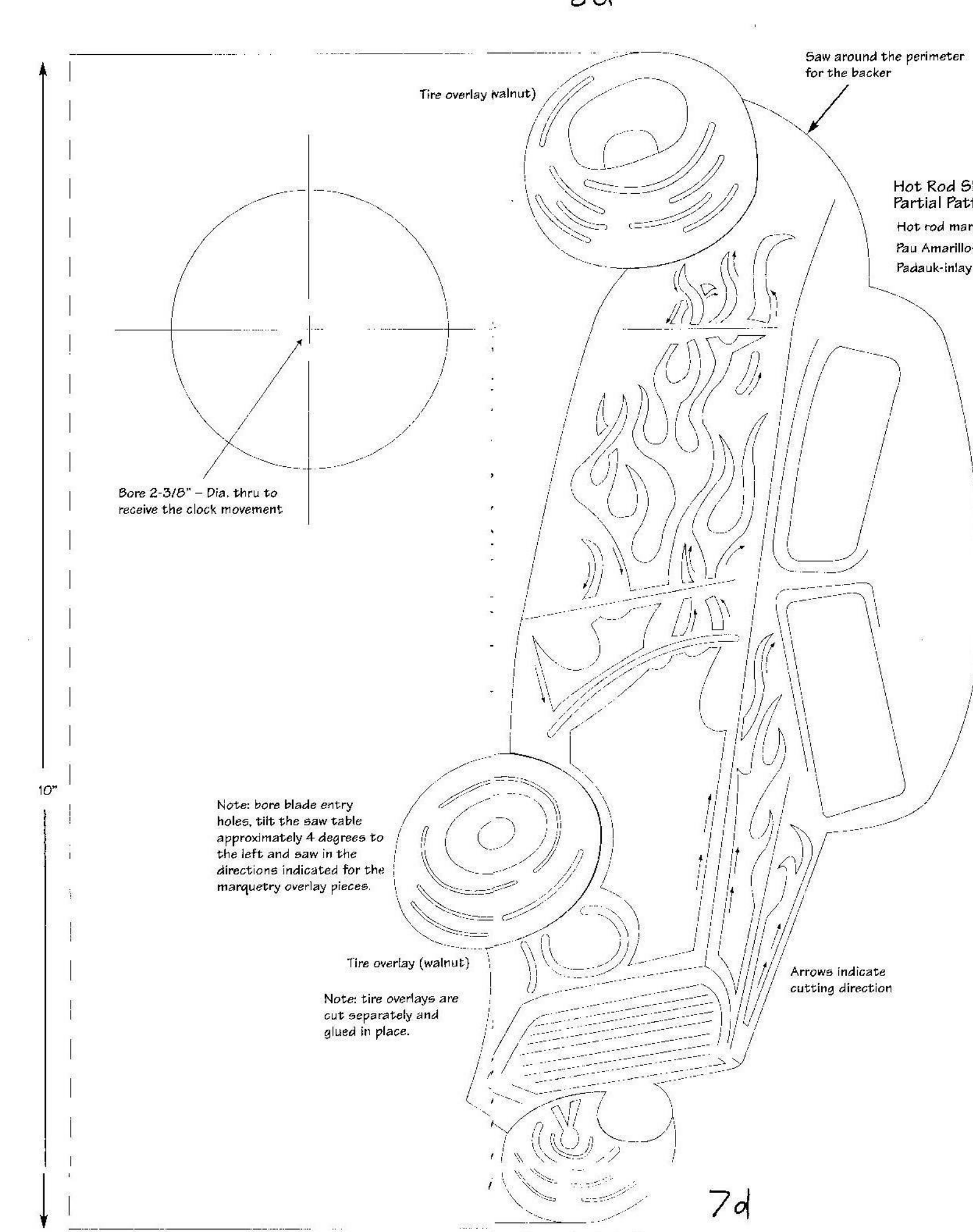
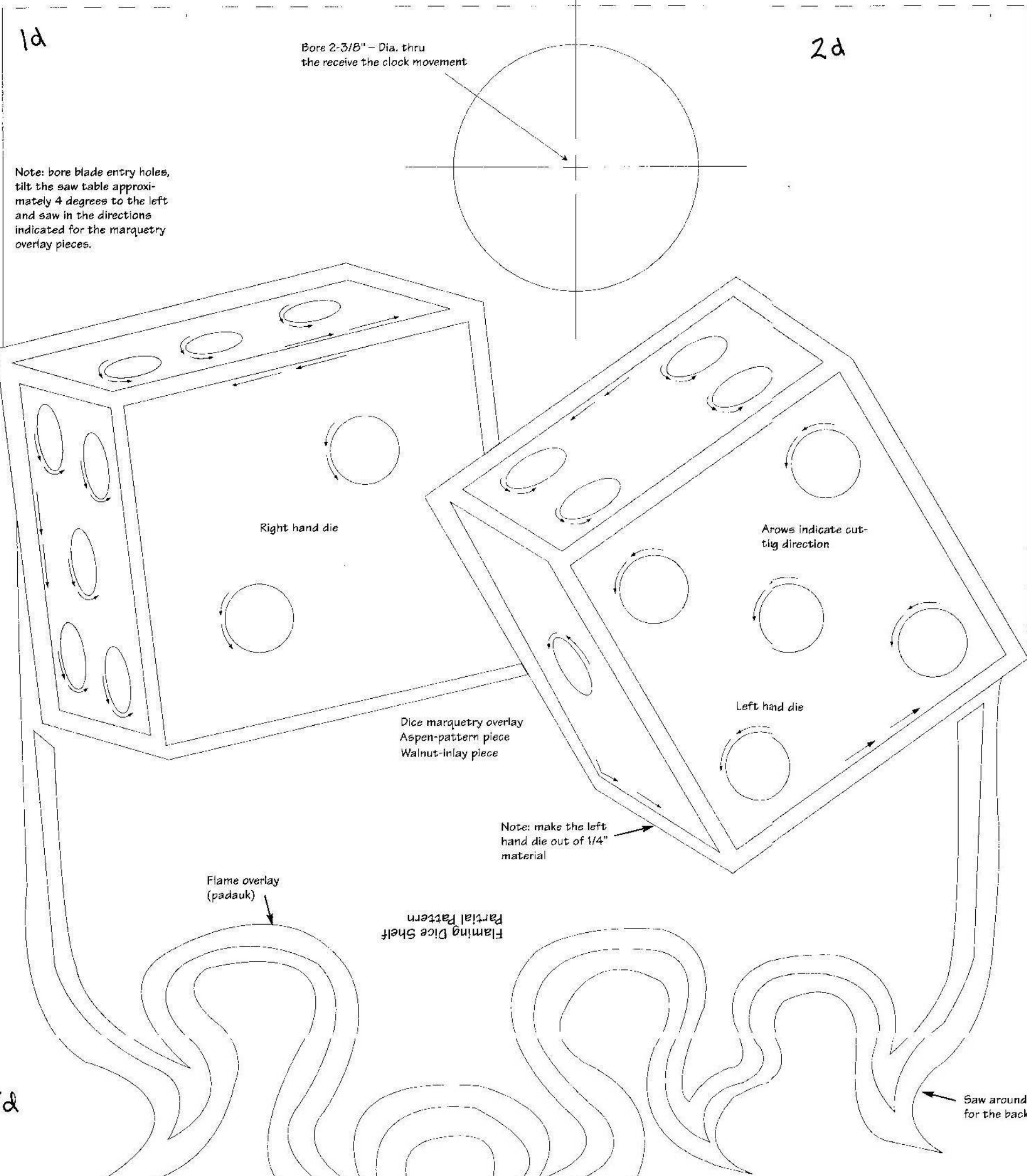
7c



Bore 2-3/8\"-Dia. thru to
receive the insert





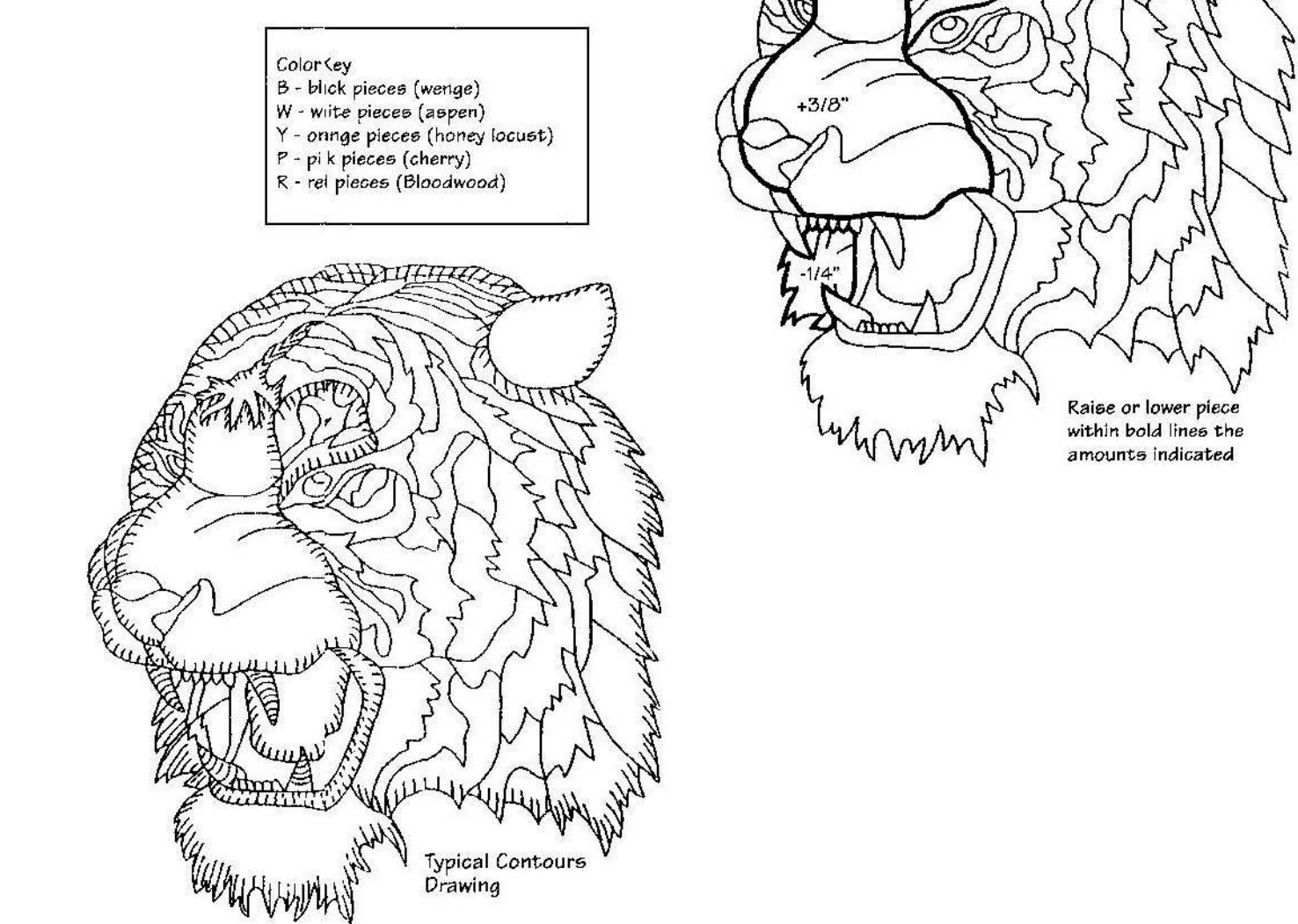


Upper case alphabet

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Lower case alphabet

a b c d e f g h i j k l m n o p q r s t u v w x y z

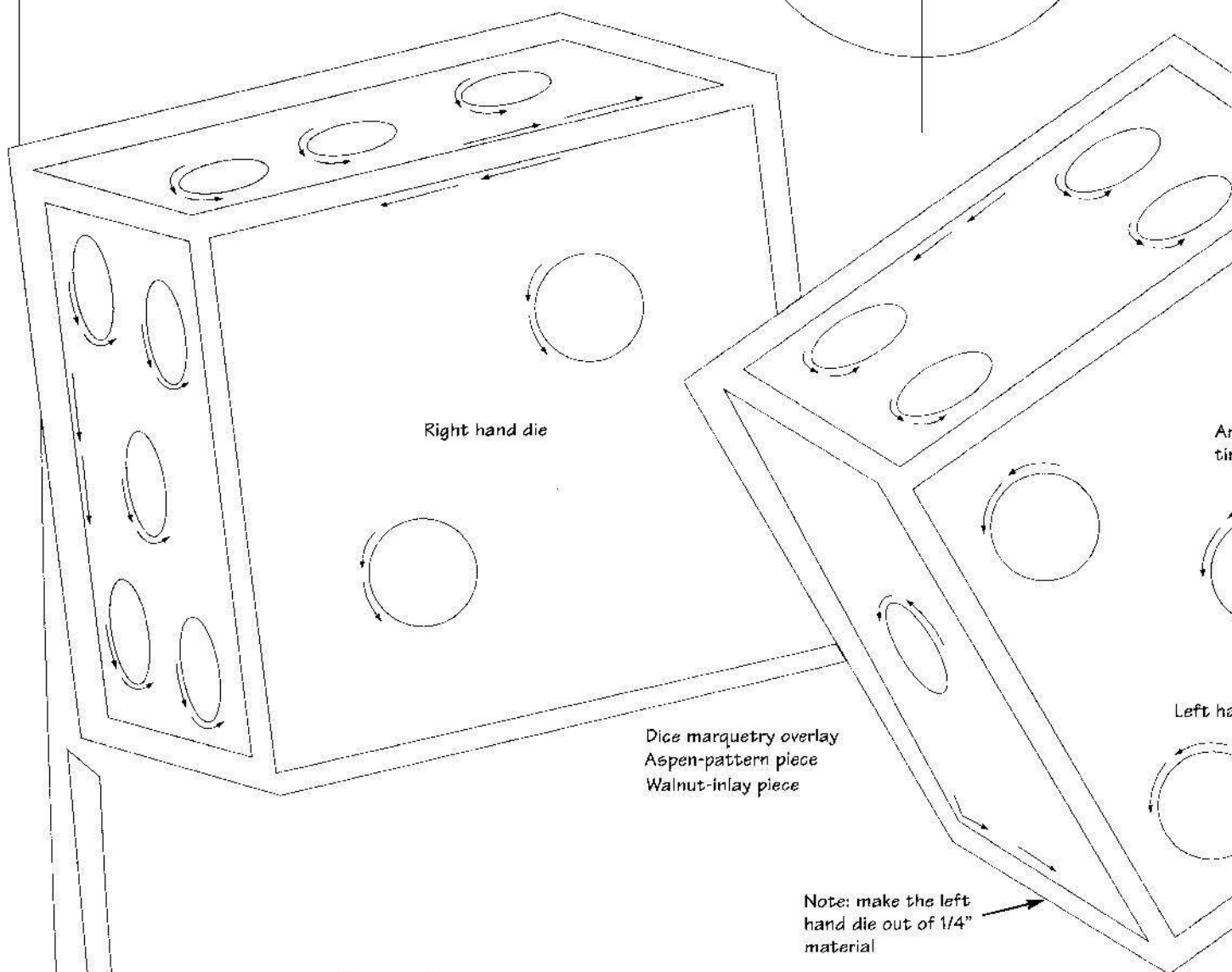
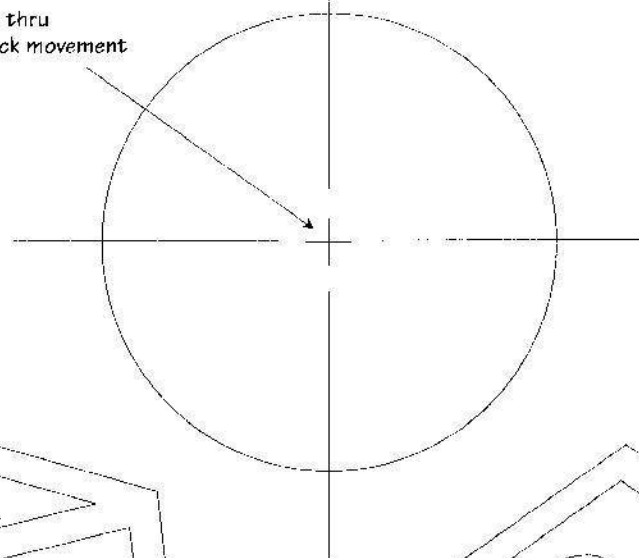


Color Key
B - black pieces (walrus)
W - white pieces (aspen)
Y - orange pieces (honey locust)
P - pink pieces (cherry)
R - red pieces (Bloodwood)

1d

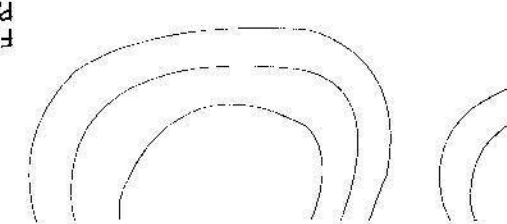
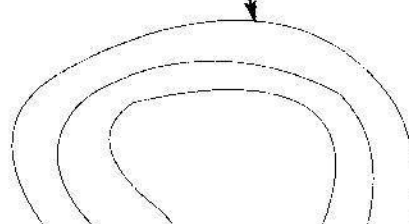
Bore 2-3/8" - Dia. thru
the receive the clock movement

Note: bore blade entry holes,
tilt the saw table approxi-
mately 4 degrees to the left
and saw in the directions
indicated for the marquetry
overlay pieces.

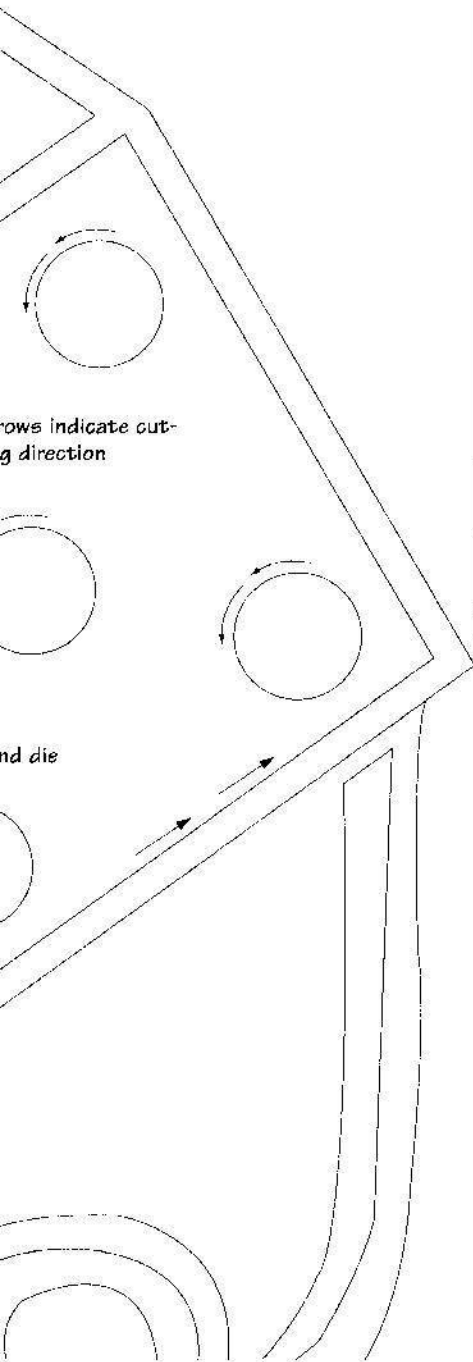


Flame overlay
(padauk)

Flaming Dice Shelf
Partial Pattern

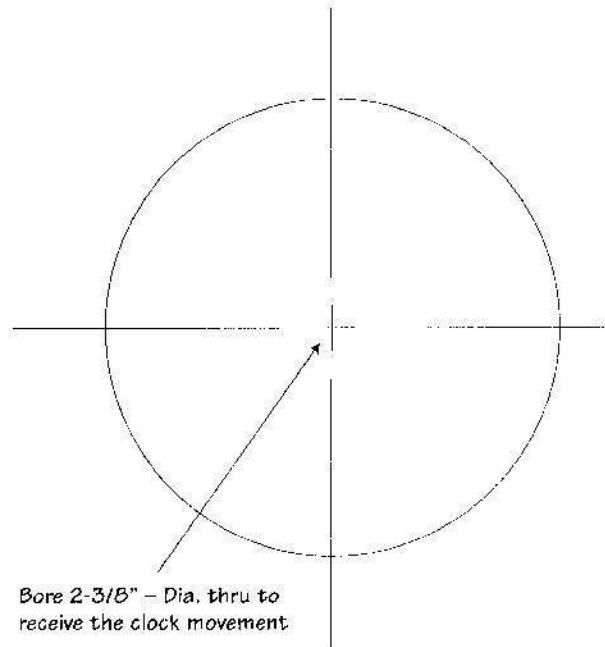


2d



10"

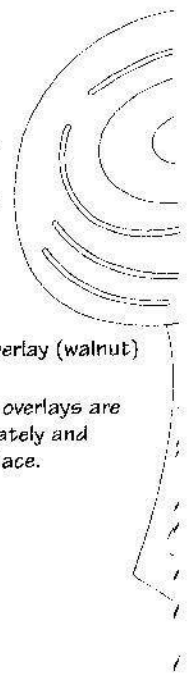
Tire overlay (



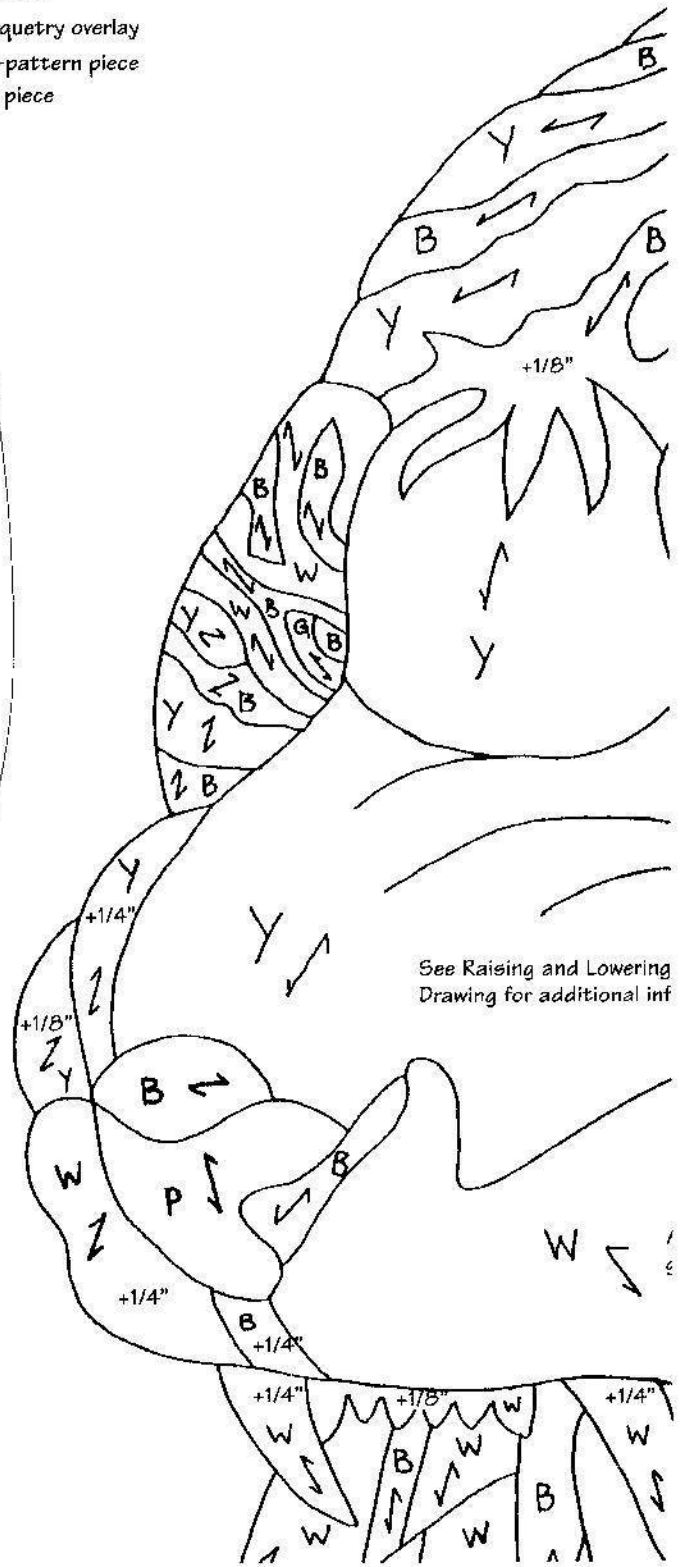
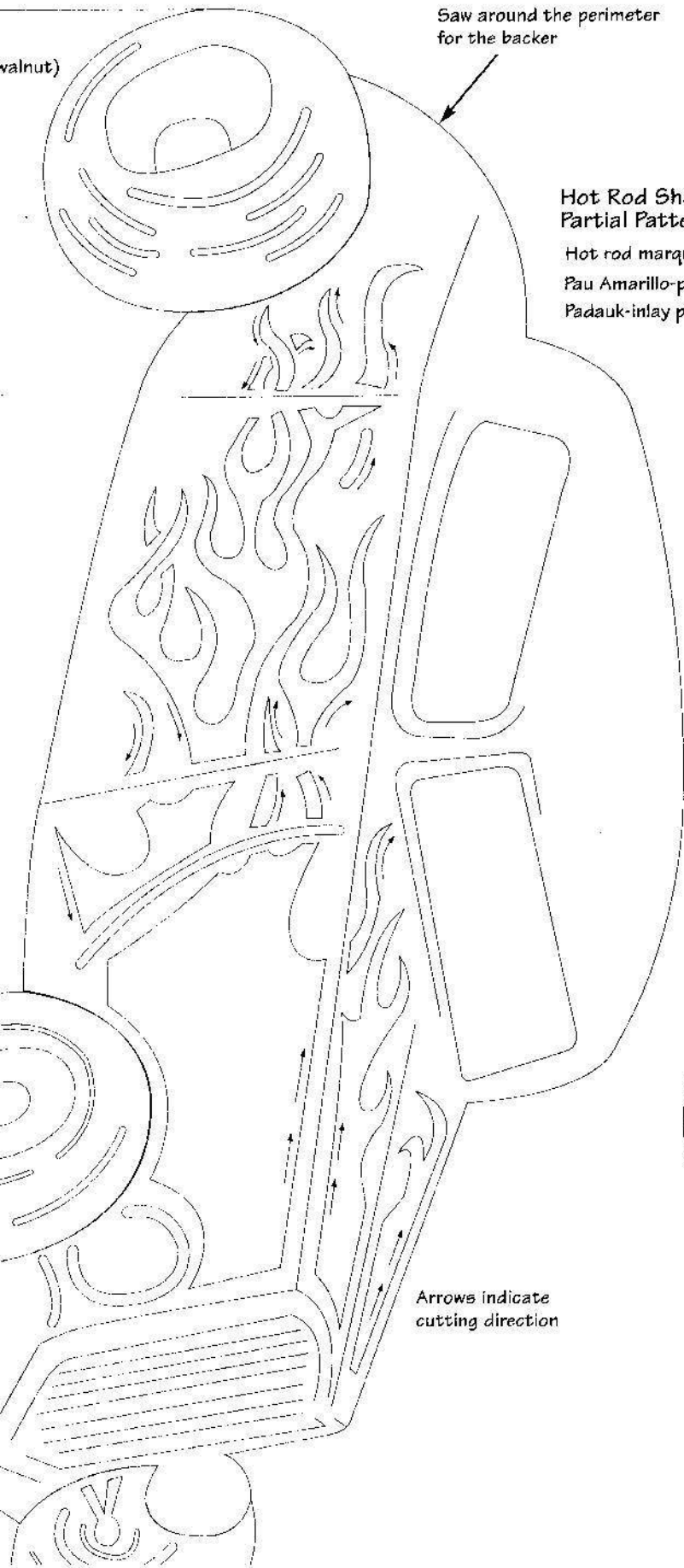
Note: bore blade entry holes, tilt the saw table approximately 4 degrees to the left and saw in the directions indicated for the marquetry overlay pieces.

Tire overlay (walnut)

Note: tire overlays are cut separately and glued in place.



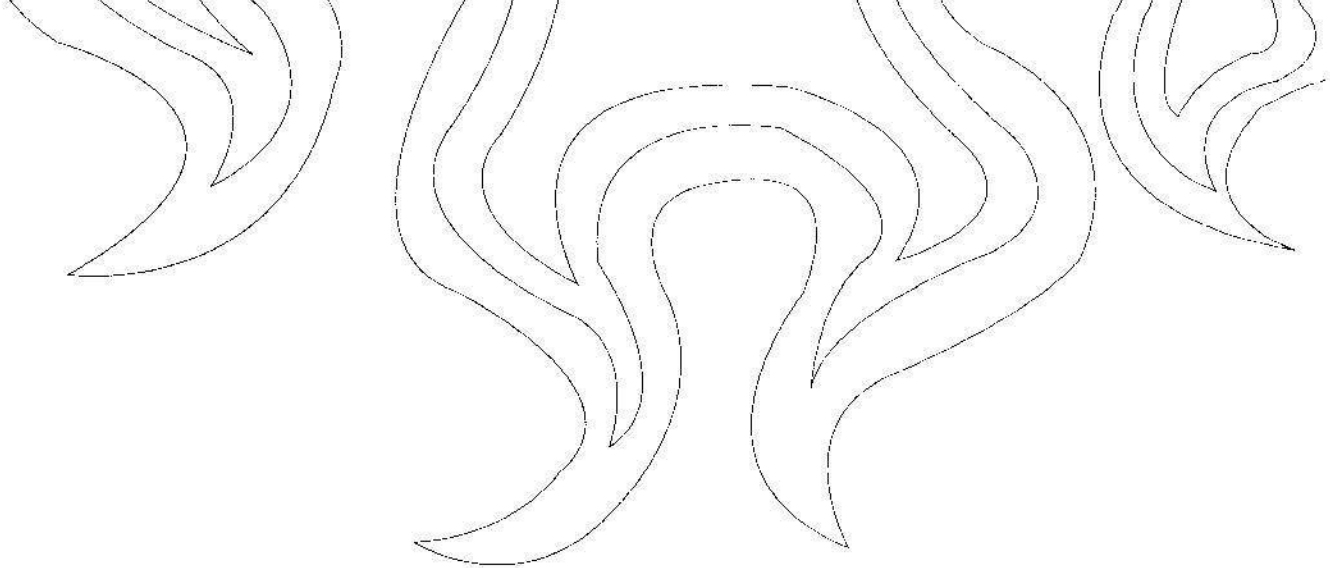
3d



4d

Full Size Pattern
Intarsia Tiger
from page 16





A B C D E F

G H I M N

P Q R S T

V W X Y

6d

Saw around the perimeter
for the backer

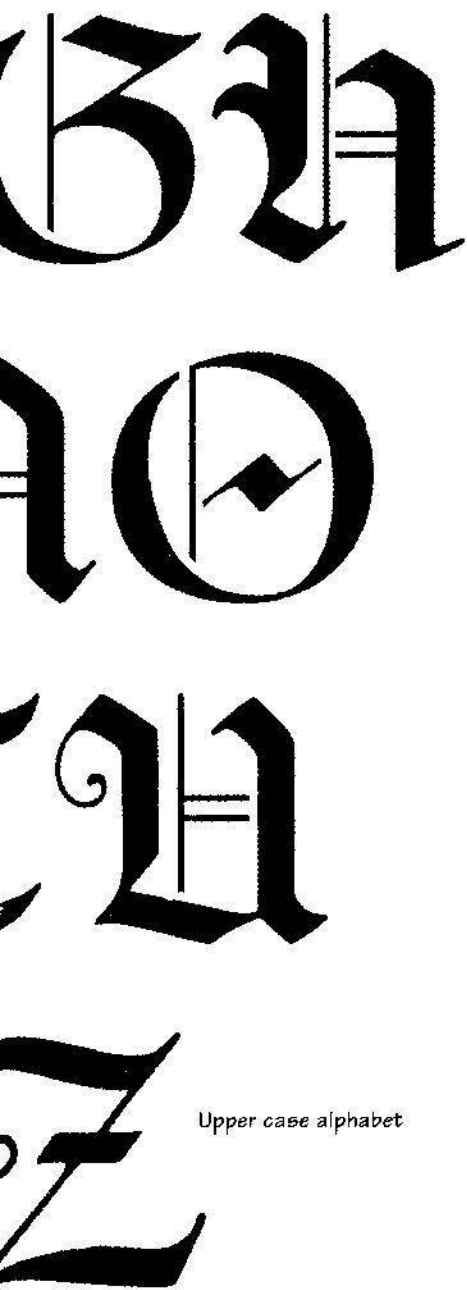
Full Size Patterns
Hot Rod Shelves
from page 51

Saw around the
perimeter for the
backer

B
F

Per
wit

Note: dado layout is the same as for the Hot Rod Shelf



Upper case alphabet

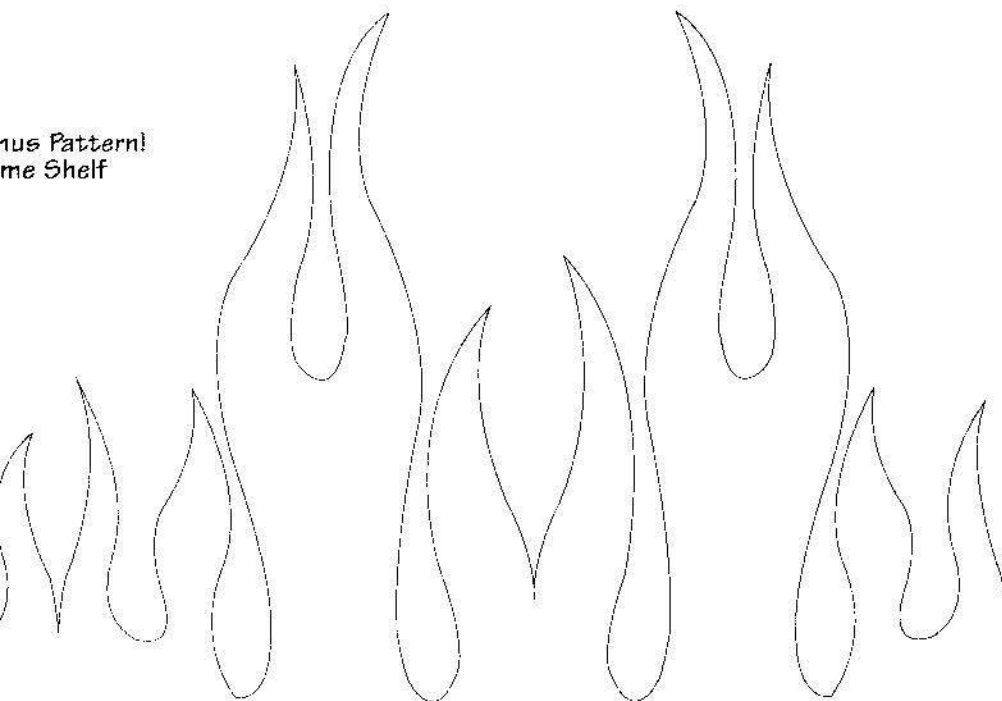
abcdefghijklmnopqrstuvwxyz
pqrst



7d

Tire overlay (walnut)

mus Pattern!
me Shelf

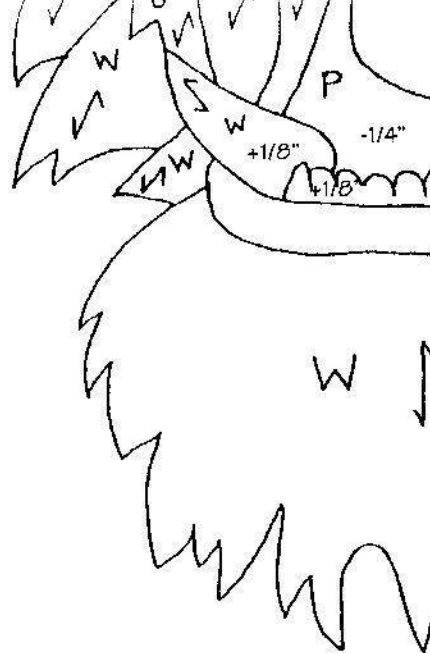


onalize as desired
alphabet provided

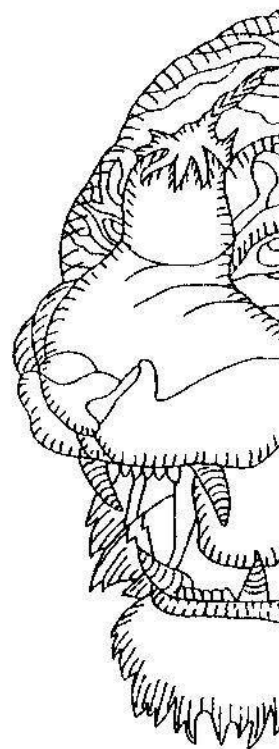
hijklmno

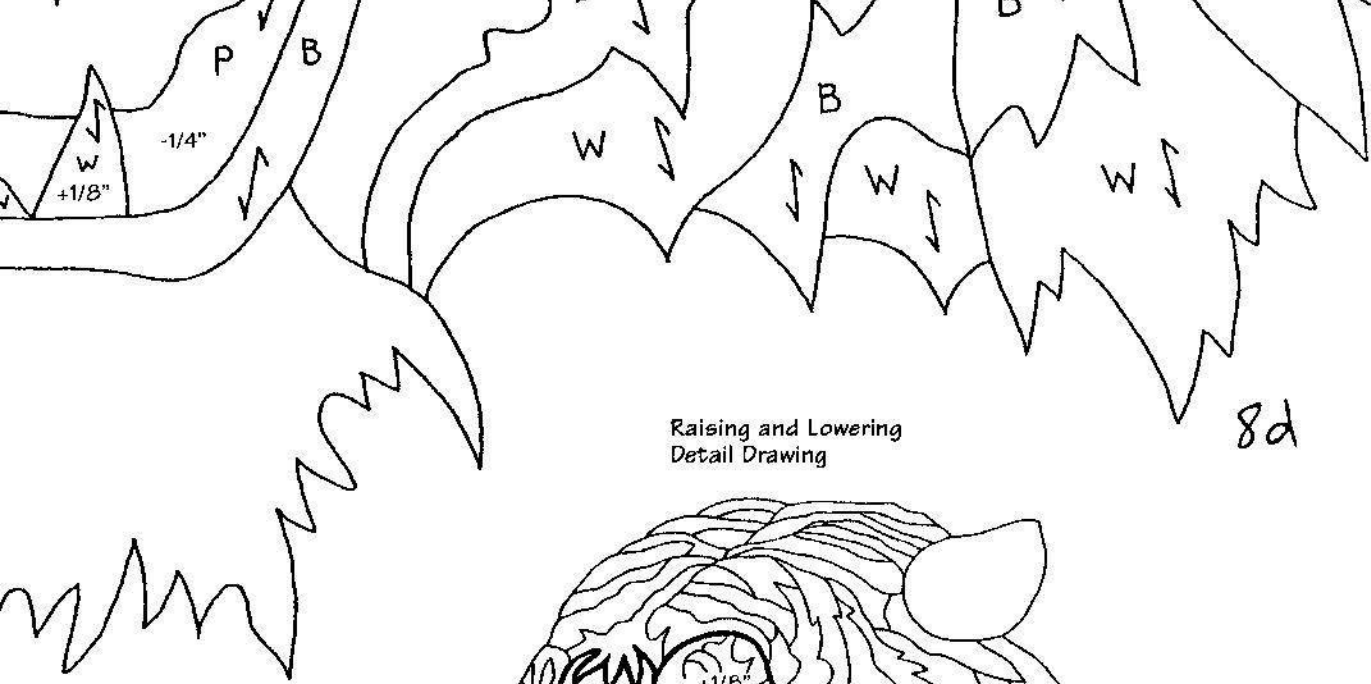
vwxyz

wer case alphabet



Color
B - bl
W - w
Y - or
P - pi
R - re

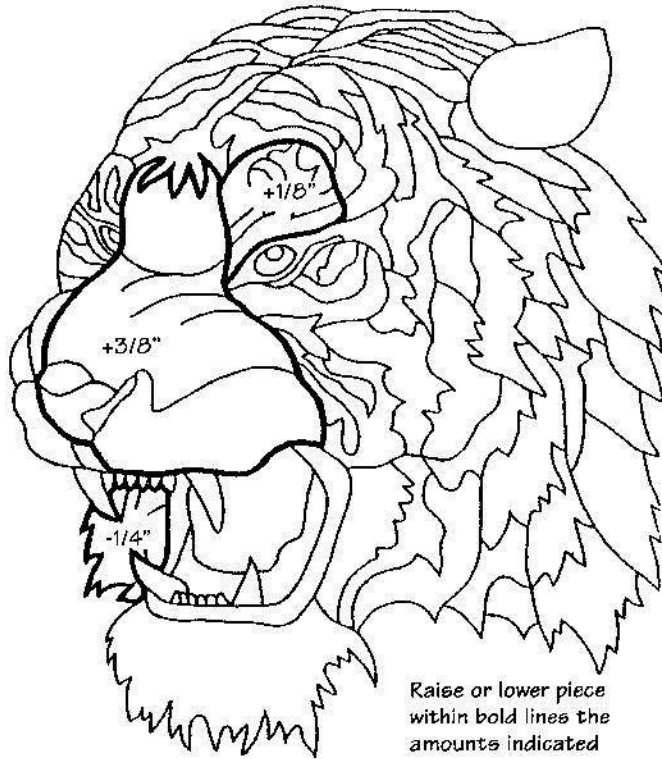




Raising and Lowering
Detail Drawing

8d

Key
 Black pieces (wenge)
 White pieces (aspen)
 Orange pieces (honey locust)
 Red pieces (cherry)
 Yellow pieces (Bloodwood)



Raise or lower piece
 within bold lines the
 amounts indicated



Typical Contours
Drawing