You Can Build the Scott Bookcase

By Jeff Branch

THE GOAL WITH this bookcase was to make something which fit a large size requirement and to make it as easily as possible. When this bookcase was constructed, I had just completed a sizeable project and was not really wanting to tackle yet another large piece of furniture with an equally large time commitment.

To make this bookcase as simple as possible, I painted it which allowed me to make it from birch plywood, poplar, MDF and stock pine moldings. In addition, being painted meant I did not have to fuss with grain matching and working around minor wood defects.

To make the project more manageable, the bookcase was built in two sections. For my small basement workshop, two smaller sections work better than one big bookcase.

This two section format enabled me to try out some design ideas that had been

floating around in my head for a while.

First, the upper case is significantly more narrow than the base cabinet. I had seen a similar design for a hutch and had liked it.

Second, I was able to incorporate a variety of moldings to dress up the piece. Note the simulated side panels with inset stop molding, the heavy base board, waist moldings and the large crown at the top.

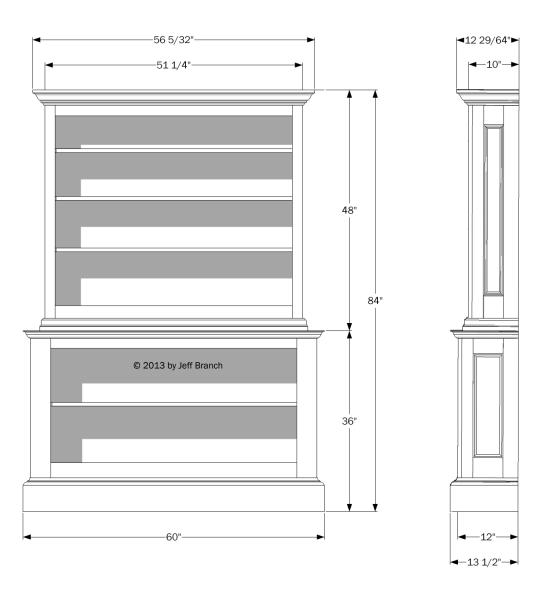
The size requested was five feet wide and seven feet tall. In an effort to minimize waste, I suggested a four foot wide bookcase, but five feet was a requirement from the client.

The bookcase was painted by hand. I realized from this project the need for spray equipment which would have further simplified the build process for this large piece of furniture.





Main Dimensions



Cut List

LOWER CASE ASSEMBLY

@ 2 Sides	35 1/4 x 11 1/4 x 3/4"
® 2 Interior Case Top/Bottom	55 1/4 x 10 5/8 x 3/4"
© 1 Back	55 1/4 x 35 1/4 x 1/2"
© 2 Panel Stile 1	35 1/4 x 2 1/4 x 1/2"
© 2 Panel Stile 2	35 1/4 x 3 x 1/2"
© 2 Panel Rail 1	6 x 10 3/4 x 1/2"
© 2 Panel Rail 2	6 x 3 3/4 x 1/2"
⊕ 4 Stop Molding Long	20 3/4 x 11/16 x 3/8" ³
① 4 Stop Molding Short	6 x 11/16 x 3/8" *
① 1 Face Frame Lower Rail	49 x 9 3/4 x 3/4"
	49 x 2 3/4 x 3/4"
© 2 Face Frame Stile	35 1/4 x 4 x 3/4"
⊚1 Shelf	54 1/2 x 10 5/8 x 3/4"
② Base Board Backer Side	12 3/4 x 6 x 3/4"
	58 1/2 x 6 x 3/4"
2 Base Board Side	13 1/2 x 5 1/4 x 3/4"
@ 1 Base Board Front	60 x 5 1/4 x 3/4"
® 2 Base Cove Molding Side	12 5/8 x 3/4 x 5/8" *
© 1 Base Cove Molding Front	58 1/4 x 3/4 x 5/8" *
① 2 Base Round Over Side	13 3/8 x 5/8 x 5/8" *
① 1 Base Round Over Front	59 3/4 x 5/8 x 5/8" *
	60 x 13 1/2 x 3/4"
∅ 6 Table Top Blocks	3 x 3 x 3/4"
⊗ 2 Top Round Over Side	12 3/4 x 3/4 x 3/4" *
	58 1/2 x 3/4 x 3/4" *

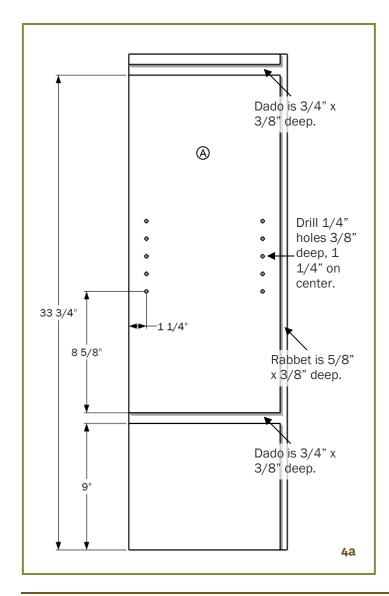
UPPER CASE ASSEMBLY

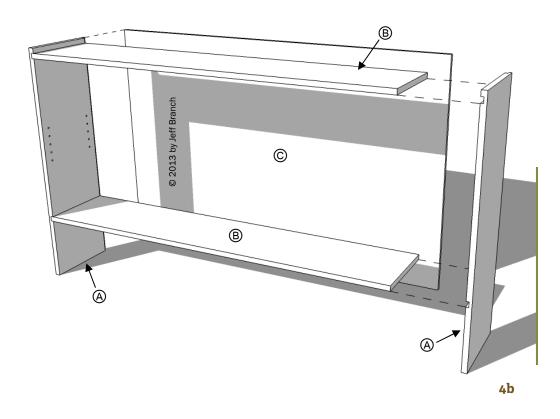
② 2 Sides	47 1/4 x 9 1/4 x 3/4"
	49 1/2 x 8 5/8 x 3/4"
A® 1 Back	49 1/2 x 47 1/4 x 1/2"
(a)© 2 Panel Stile 1	47 1/4 x 2 1/4 x 1/2"
(a) 2 Panel Stile 2	47 1/4 x 3 x 1/2"
A© 2 Panel Rail 1	7 x 4 x 1/2"
AF 2 Panel Rail 2	6 1/4 x 4 x 1/2"
(A) 4 Stop Molding Long	34 x 3/4 x 3/8" *
⊕ 4 Stop Molding Short	4 x 3/4 x 3/8" *
(a) 3 Shelf	48 3/4 x 8 5/8 x 3/4"
(a) 1 Face Frame Lower Rail	47 1/4 x 5 x 3/4"
	47 1/4 x 4 3/8 x 3/4"
	47 1/4 x 2 x 3/4"
	10 3/4 x 2 1/2 x 3/4"
$@ \ 1$ Waist Molding Large Front	52 3/4 x 2 1/2 x 3/4"
ⓐ⊚ 2 Waist Molding Small Side	11 1/16 x 1 1/8 x 5/16"
$\ensuremath{\mathbb{AP}}$ 1 Waist Molding Small Front	53 3/8 x 1 1/8 x 5/16"
@ 2 Crown Molding Side	12 29/64 x 3 1/32 x 2 29/64 *
A® 1 Crown Molding Front	56 5/32 x 3 1/32 x 2 29/64 *
(A) 1 Crown Top	55 13/64 x 11 63/64 x 3/4 *
⊕ 2 Back Cleats	11 1/4 x 2 x 3/4 *

NOTES

^{*} Size is approximate. The thickness and height of stock moldings may vary. The final size of the Crown Top, part **AS** will depend on the size and sweep of the crown molding.

Build the Lower Case



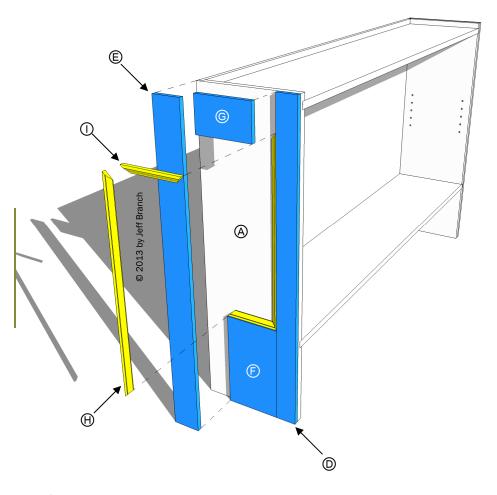


BEGIN CONSTRUCTION BY cutting the lower case sides, parts **A**, to final size (see the cut list). Form two dados and a rabbet as indicated in 4a. Drill shelf support holes as shown.

Cut parts **B** following the cut list. Add glue to the dados in parts **A**, position parts **B** in place and clamp. Allow glue to dry. Sand all parts as needed prior to glue-up.

Form part **C**. Attach to the case with glue and brads. Part **C** should fit into the rabbets along the rear edge of part **A**. Add glue and nails to parts **B** as well.

Add the Panels



WITH THE BASIC BOX of the lower case completed, it is time to add the simulated panels to the sides. This needs to be completed prior to adding the face frame since the panels add width to the case.

Begin construction by cutting parts \mathbf{D} , \mathbf{E} , \mathbf{F} and \mathbf{G} to final size. I made these parts from 1/2" MDF. Attach them to the side, part \mathbf{A} with brads and glue. A pneumatic brad nailer is handy for this step.

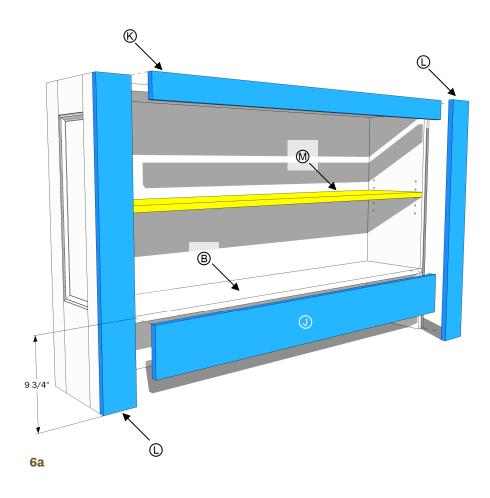
Trim out the inner edge of the panel rails and stiles with stop molding. The stock molding at your home center store will likely be slightly different than what I used. For this reason, I have listed the cut list size for parts \mathbb{H} and \mathbb{I} as approximate. It is important that the stop molding be no thicker than 1/2" with 3/8" to 7/16" being preferable.

Cut the stop molding to length as needed utilizing 45° miters at each end. Add glue and nail in place.

Repeat these steps for the opposite side.

Throughout the construction of this bookcase, sand all parts as needed.

Build the Face Frame

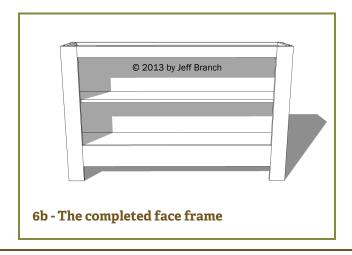


ADD THE FACE FRAME by cutting parts **J**, **K** and **L** to size based on the cut list. For parts **L**, it is handy to make them 1/16" wider than needed, and then trim the excess away with a router flush trim bit after the face frame is installed.

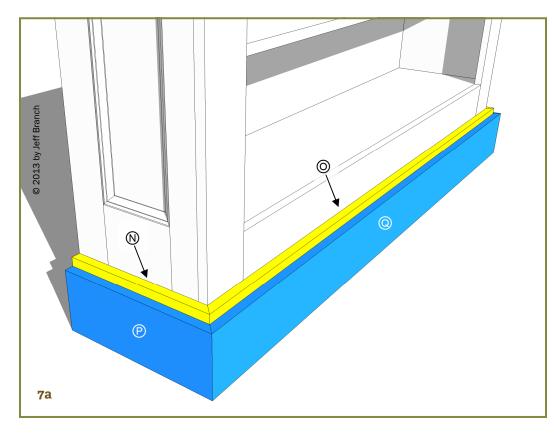
The upper face frame rail, part **K** aligns flush with the top of the face frame stiles, parts **L**. Position the lower face frame rail flush with the case bottom, part **B**. Join the face frame components to each other with pocket screws and glue.

Before installing the face frame, form the shelf, part \mathbf{M} and position it inside the lower bookcase using 1/4" dowels or metal shelf supports. I later drilled a 1/4" hole in the lower bookcase back, part \mathbf{C} , to support the shelf along it's long length.

Attach the completed face frame to the bookcase with glue and clamps and trim parts **L** flush with the sides as earlier mentioned.



Add Base Moldings

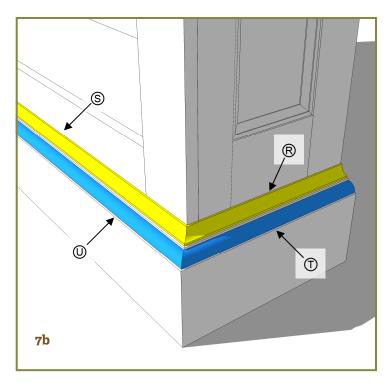


▲ **THE BASE BOARDS** are built up from plywood and topped with stock home center moldings made of pine.

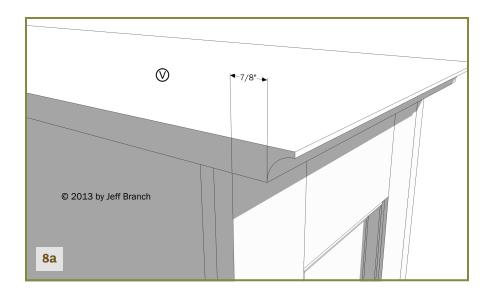
Begin by adding cutting parts **N** and **O** to final size. Form 45° miters at the corners as shown in 7a. Attach with brads and glue. Repeat for parts **P** and **Q**.

▼ **ALL THE BASE MOLDINGS** are stock cove and round over moldings. Trim parts **R**, **S**, **T**, and **U** as shown below.

Cut to fit and install these parts using brads and glue.



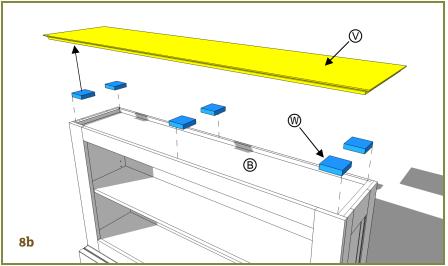
Finish the Base Cabinet



FORM THE TABLE top, part **V** by cutting it to final size following the cut list. When position on the case, the top should be flush at the back and centered along the case length. Do not attach the top to the case at this point.

Cut a cove along the front and side edges similar to what is shown above. I created the profile with a router and a 1/2" cove bit.

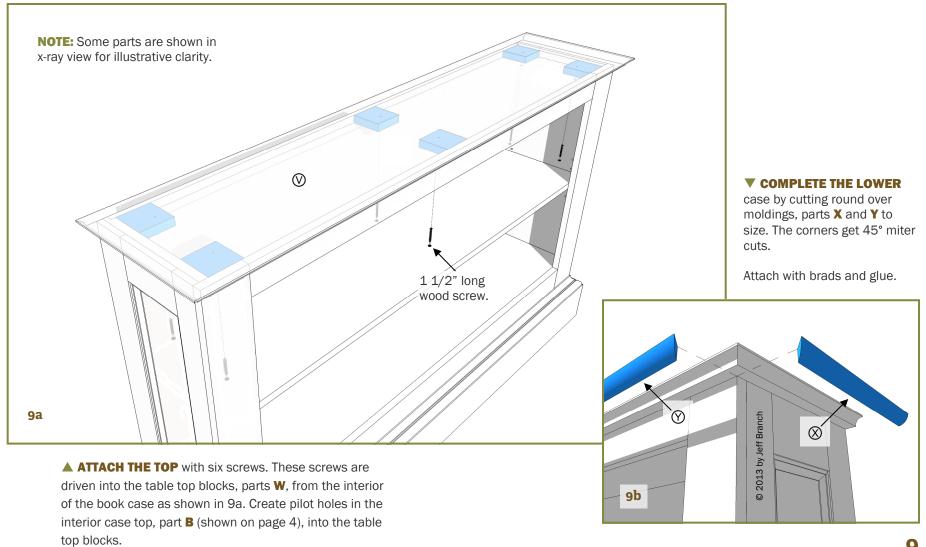
The cut should leave a minimum of 7/8" over-hang at the front and sides.



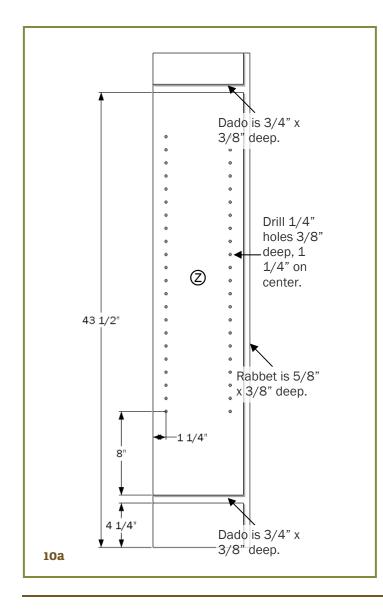
THE PROCESS FOR attaching the top uses table top blocks, parts **W**, to fill the cavity between the interior case top, part **B**, and the actual top, part **V**.

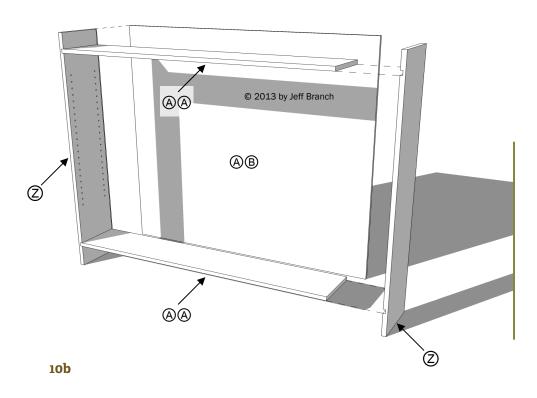
Dotted lines show where to locate parts **W**: at each corner and two centered along the length of the case. Transfer these locations to the bottom of part **V**. Carefully position parts **W** onto part **V**, and attach with glue and brads.

Finish the Base Cabinet



Build the Upper Case



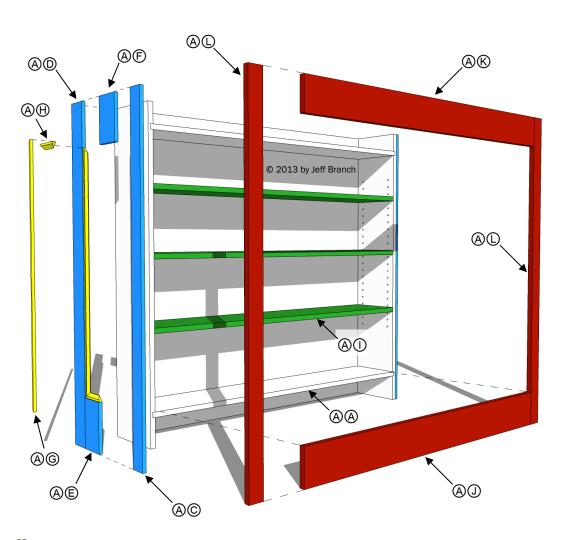


THE UPPER CASE goes together in the same way the lower case did. Form the upper case sides, parts **Z**, to final size (see the cut list). Form two dados and a rabbet as indicated in 10a. Drill shelf support holes as shown.

Cut parts **AA** to size. Add glue to the dados in parts **Z**, position parts **AA** in place and clamp. Allow glue to dry. Sand all parts as needed prior to glue-up.

Form part **AB**. Attach to the case with glue and brads. Part **AB** should fit into the rabbets along the rear edge of part **Z**. Attach part **AB** to parts **AA** with glue and nails as well.

Build the Upper Case



CONTINUE BUILDING THE upper case by adding the simulated panels to the sides and then creating and installing the face frame.

The panels are created from 1/2" stock (I used MDF). Form parts **AC**, **AD**, **AE** and **AF** following the cut list. Attach these parts to the case sides with brads and glue.

Add stop molding to the interior edges of the simulated panel as shown (parts **AG** and **AH**) using brads and glue.

Repeat these steps to create a panel for the opposite side.

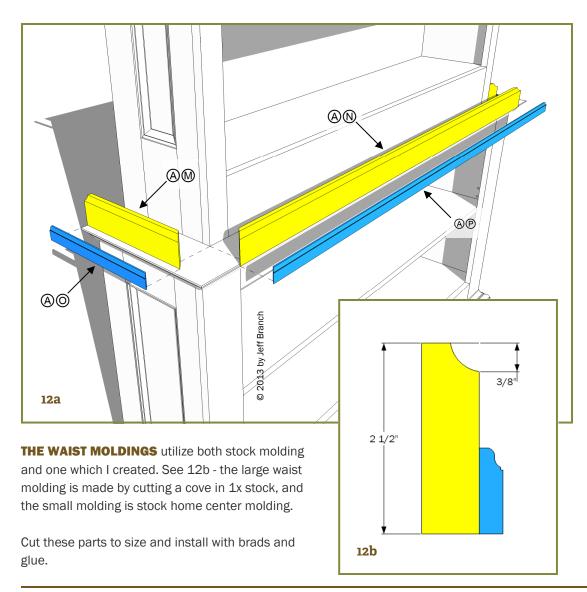
Cut three shelves, parts **Al** to size and position them with 1/4" wood dowels or shelf pins.

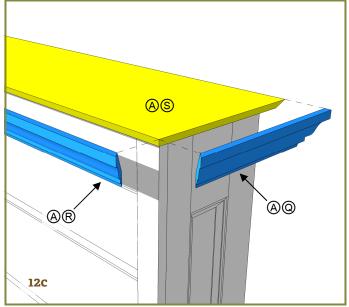
Form the face frame rails and stiles, parts **AJ**, **AK** and **AL**. Join them together with pocket screws and glue. I cut parts **AL** about 1/16" wider than what is called for in the cut list.

Attach the face frame to the case using glue and clamps. Note that the top of the lower face frame rail is flush with the top edge of part **AA**.

I later trimmed the excess 1/16" from part **AL** with a router and a flush trim bit.

Add Moldings



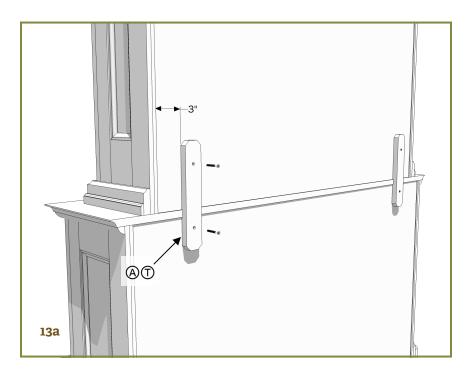


THE CROWN MOLDING is all stock home center material. I designed the top so that the edges of the top, part **AS** match the slope of the crown molding; a tricky exercise.

Cut part **AS** to fit and attach to the case sides and front face frame with wood screws. Counter sink the wood screws and fill a wood plug or dowel. Trim as needed.

Cut the crown moldings, parts **AQ** and **AR**, to size and attach with brads and glue.

Final Construction



THE FINAL STEP in this project is to secure the top to the bottom. This is accomplished with two back cleats, parts **AT**.

I cut them to size, measured 1/2" in from each corner and clipped the corners off. I also fitted the base table top into a shallow dado. The cleats were then screwed through the back and into parts **B** and **AA**.

