

Make a Breakdown Show Case

A Customized Case Gives You the Home Advantage

Story and Photos by Dave Fisk

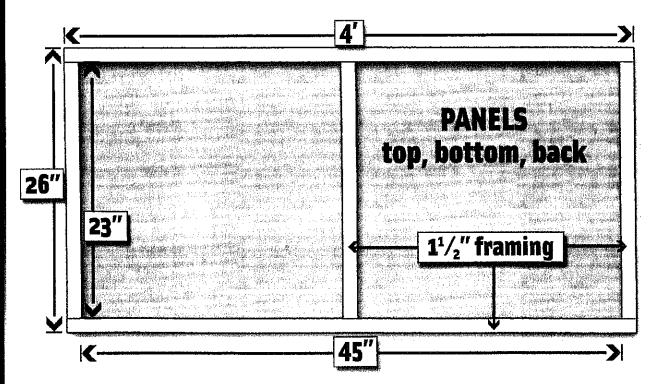
n order to make my displays at gem shows more dramatic and pleasing, I decided to make my own display case to federation standards. With it I could practice setting up displays at home, and I could make custom fittings for the inside of the case. To make it easy to transport, I decided to make it collapsible. I borrowed a case from the Roseville Rock Rollers and analyzed all the dimensions and materials. I then proceeded to clone the Roseville club's case. Here is how I did it, step by step.

From a sheet of 1/8-inch paneling, I cut one 22-inch by 48-inch piece for the bottom of the case; one 221/2-inch by 48-inch piece for the back; and two 22-inch by 223/16-inch pieces for the sides.

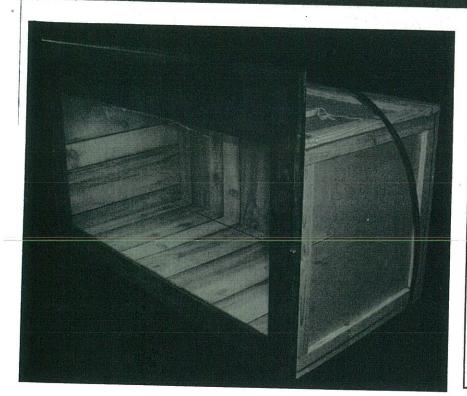
From a sheet of 1/8-inch (could also be 1/4-inch) perforated hardboard, I cut one 21-inch by 48-inch piece.

I cut one of the 1-inch by 4-inch by 8-foot boards in two, creating two 1-inch by 4-inch by 4-foot boards. I ripped (cut lengthwise) one of these boards 2 inches wide and the other 21/8-inches wide. These boards will be attached to the back panel.

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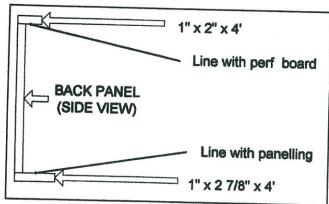


Frame the 4-foot by 26-inch top, back, and bottom panels with 1½-inch pieces of wood by gluing and clamping the pieces.

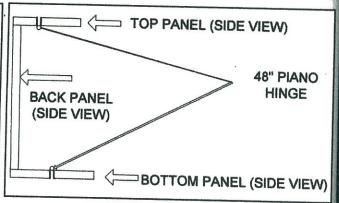


MATERIALS:

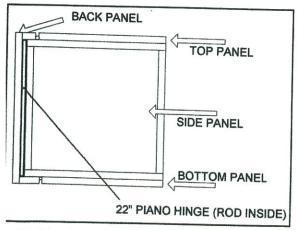
- two 1/4-inch x 4-inch bolts and nuts
- · four sheet metal screws
- two 75 Watt light bulbs
- 11 feet of 16-gauge three-wire cord
- · one three-prong plug
- two 4-inch metal electrical boxes
- one glass pane approximately 20³/₁₆ inches x 42 inches
- two 22.25-inch piano hinges
- two 48-inch piano hinges
- · two 4-inch porcelain pull sockets
- six 6 spade connectors
- two 2-inch steel straps
- two 2-inch x 18-inch steel straps
- · two wire nuts
- one 48-inch x 21-inch perforated hardwood sheet
- one ½-inch-thick wall panel,
 4 feet x 8 feet
- six 1-inch x 4-inch x 8-foot pine boards
- one 1-inch x 8-inch x 4-foot pine board



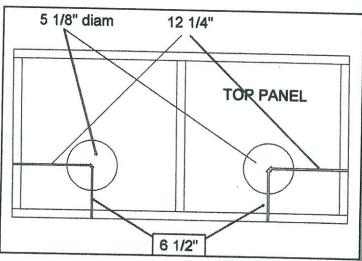
Line the 2-inch board with perforated hardboard and the 2½-inch board with paneling.



Attach the case top and bottom panels to the case back.



Attach the side panels to the back panel with 22.25-inch piano hinges.



Cut light holes in the perforated hardboard of the case top.

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I ripped the 1-inch by 8-inch by 4-foot board to 1 inch by 7 inches by 4 feet. This will form the top stile of the case front.

Next, I cut one of the 1-inch by 4-inch by 8-foot boards in two, creating two 1-inch by 4-inch by 4-foot boards. I ripped one of these boards to 1 inch by 31/4 inches by 4 feet. This will be the bottom stile of the case front.

I cut one of the 1-inch by 4-inch by 8-foot boards into two pieces 26 inches long and saved the remainder of the wood. I ripped the two pieces to 31/4 inches wide. These will be the side rails of the case front.

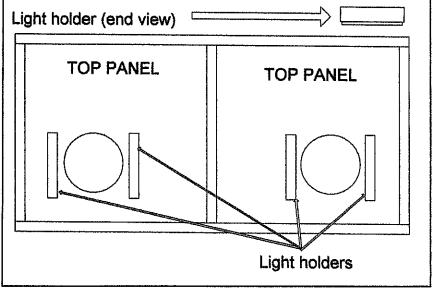
I ripped the remaining 1-inch by 4-

inch by 8-foot boards and the waste from my previous cuts to 1½-inch widths. These will be used to frame the panels and create the light holders.

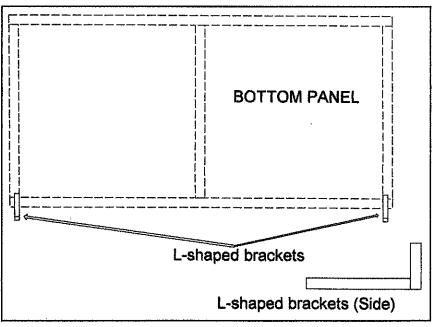
I framed the top, back, bottom, and side panels with 1½-inch pieces by gluing and clamping the pieces. Then I cut two pieces of wood 7 inches by 1 inch by 1½ inches to serve as light holders.

I attached a 1-inch by 2-inch by 4-foot board and a 1-inch by 2½-inch by 4-foot board to the assembled back panel with glue and screws. I lined the 2-inch board with perforated hardboard and lined the 2½-inch board with paneling.

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Attach light holders to the perforated hardboard of the case top.



Attach the bottom brackets to the case's bottom panel.

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AMETHYST, Gem color, ovals 7x5 mm \$3.50, 8x6 mm \$4.75, checkerboard rounds, 9 mm \$9.50, trillion 9 mm \$9.50, cushion 10x8 mm \$14.50, 9x7 mm \$12.50 ea.

BLACK SPINEL, fine quality, rounds, 3 mm 0.35, 4 mm 0.65, 5 mm 0.90, 6 mm 1.50, 6 mm princess cut 1.75 ea.

SILVER TOPAZ, fine rounds, 3 mm \$0.65, 4 mm \$0.80, 5 mm \$1.25, oval, 6x4 mm \$1.25, 7x5 mm \$2.50, 9x7 mm \$4.50 ea.

HESSONITE, fiery orange, fine quality, 3 mm \$1.25, 4 mm \$2.75, ovai, 5x3 mm \$3.50, 6x4 mm \$4.50, 7x5 mm \$8.50 ea.

GARNET, fiery red, fine quality, ovals 6x4 mm \$2.00, 8x6 mm \$6.00, 9x7 mm \$11.50 ea. RHODOLITE, fine pink, rounds, 3 mm \$0.95, trillion & princess cut \$1.10, marquise, 6x3 mm \$1.75, oval, 6x4 mm \$3.50 ea.

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CITRINE, Gem gold color, checkerboard, rounds and trillion, 10 mm \$10.00, 11 mm \$12.00, 12 mm \$14.00, ovals, 11x9 mm \$14.00, 12x10 mm \$16.00, 14x10 mm \$18.00 ea.

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AMETHYST, Gem color, rounds, 4 mm \$0.85, ovals, 7x5 mm \$1.50, 9x7 mm \$2.75 ea. BLACK STAR SAPPHIRE, 6x4 mm \$3.50, 8x6 mm \$8.50 ea. INDIAN SUNSTONE, fiery orange ovals, 6x4 mm \$0.75, 8x6 mm \$2.25 ea. TOURMALINE, pink rounds, 4 mm \$3.00, 5 mm \$ 4.50 ea.

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I attached the bottom panel to the back panel with a 4-foot piano hinge. Then I attached the top to the back panel with a 4-foot piano hinge. Next, I attached the side panels to the back panel with 22-inch piano hinges.

Measuring 6½ inches in from the front and 12¼ inches in from the sides, I cut two holes in the top panel using a jig saw and a 1-pound coffee can or lid as a template.

I cut a notch along each 7-inch light holder for the lip of the metal strap in the light assembly to fit into. I attached 7-inch light holders to the top of the case using glue and clamps.

I attached two 2-inch holding straps to the case bottom with wood screws.

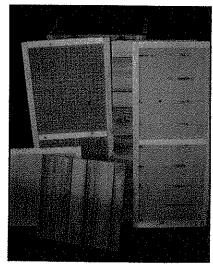
I cut 45-degree angles at the ends of each of the 26-inch pieces of board and at the ends of the 3½-inch by 48-inch bottom piece of the case front. Then I cut a 45-degree angle on each end of the 7-inch by 4-foot by 1-inch top piece of the case front. I assembled the four pieces like a picture frame.

I routed a 1/8-inch-wide, 1/8-inch-deep dado around the inside of one side of the picture frame case front and made the corners square using a chisel. I measured the opening and purchased a pane of 1/8-inch-thick glass to fit (201/16 inches by 42 inches). I placed the glass in the frame and secured it using glazier's points.

I cut the 11-foot piece of electrical wire into one piece 3 feet long and one 8 feet long. I stripped the insulation back 2½ inches from both ends of both pieces of wire. I also stripped ½ inch of wire at both ends of each piece of cord.

I attached a three-pronged plug to one end of the 8-foot section of wire.

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The components of the case are framed in 1½inch pine strips and covered with paneling or perforated hardboard.

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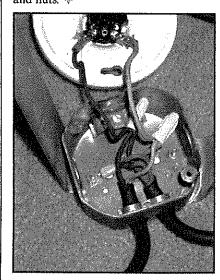
Show Case from page 76

I ran one end of the 3-foot wire through a 4-inch electrical box, and attached wires to the positive and negative leads of one porcelain pull-chain fixture. I attached the ground to the box with a small screw and nut. I screwed down the holdfast to hold the 3-foot wire inside the box. Then I screwed the porcelain pull-chain fixture into place on the 4-inch electrical box.

I ran the unused ends of the 8-foot and 3-foot wires into another 4-inch electrical box. I attached 6-inch pieces of wire to the positive and negative connectors of the other porcelain pull-chain fixture. I connected the positive wires from the 3-foot section to the positive wires from the 8-foot section with a wire nut and did the same with the negative wires. I attached the ground wires to the electrical box using a small bolt and nut. I screwed down holdfasts to hold the wires inside the box. Finally, I screwed the porcelain pull-chain fixture into place on the 4-inch electrical box.

I cut two 2-inch by 18-inch strips from a sheet of 20-gauge steel sheet. I bent the strips ½ inch from each end and bent one strip around each electrical box. I attached the strips to the electrical boxes using two sheet metal screws in each strip. I placed light bulbs in the porcelain pull-chain fixtures. Then I plugged them into a wall socket and tested the lighting units.

I opened the assembled case top, back, bottom, and sides. Placing the case front against the opened assembly, I drilled two 1/4-inch holes through the front and through the 11/2-inch panel framing on both sides. I attached the front to the assembly using 1/4-inch bolts and nuts.



I ran the 3-foot wire and the 8-foot wire through a 4-inch electrical box, attached them to a porcelain pull-chain fixture, and attached the ground wires to the electrical box.



American Federation of Mineralogical Societies

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August 27, 2012

Al DeHart 229 Cabell Drive Newport News, VA 23602

Greetings, Al:

In follow up to last week's email correspondence, I'm very happy to pass along blueprints that I have on file for building a "Federation-style" display case for gem and mineral shows.

I have permission from Dave Fisk and Rock & Gem magazine to post his blueprints and instructions to the CFMS and/or AFMS web sites, which I'm hoping to do later this year so that everyone can have easy access to them. Meanwhile, I hope these three sample designs prove of some assistance to you.

Best regards

Jim Brace-Thompson

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