

# Project 12231EZ: Country Curio Clock



*This good-looking clock not only reminds you of the time, it also provides a couple of shelves to display favorite curios. No fancy joinery is needed here, just butt joints secured with countersunk screws. Although the joinery may be simple, it's plenty sturdy for a small wall clock like this. We hope you enjoy building it and using it.*

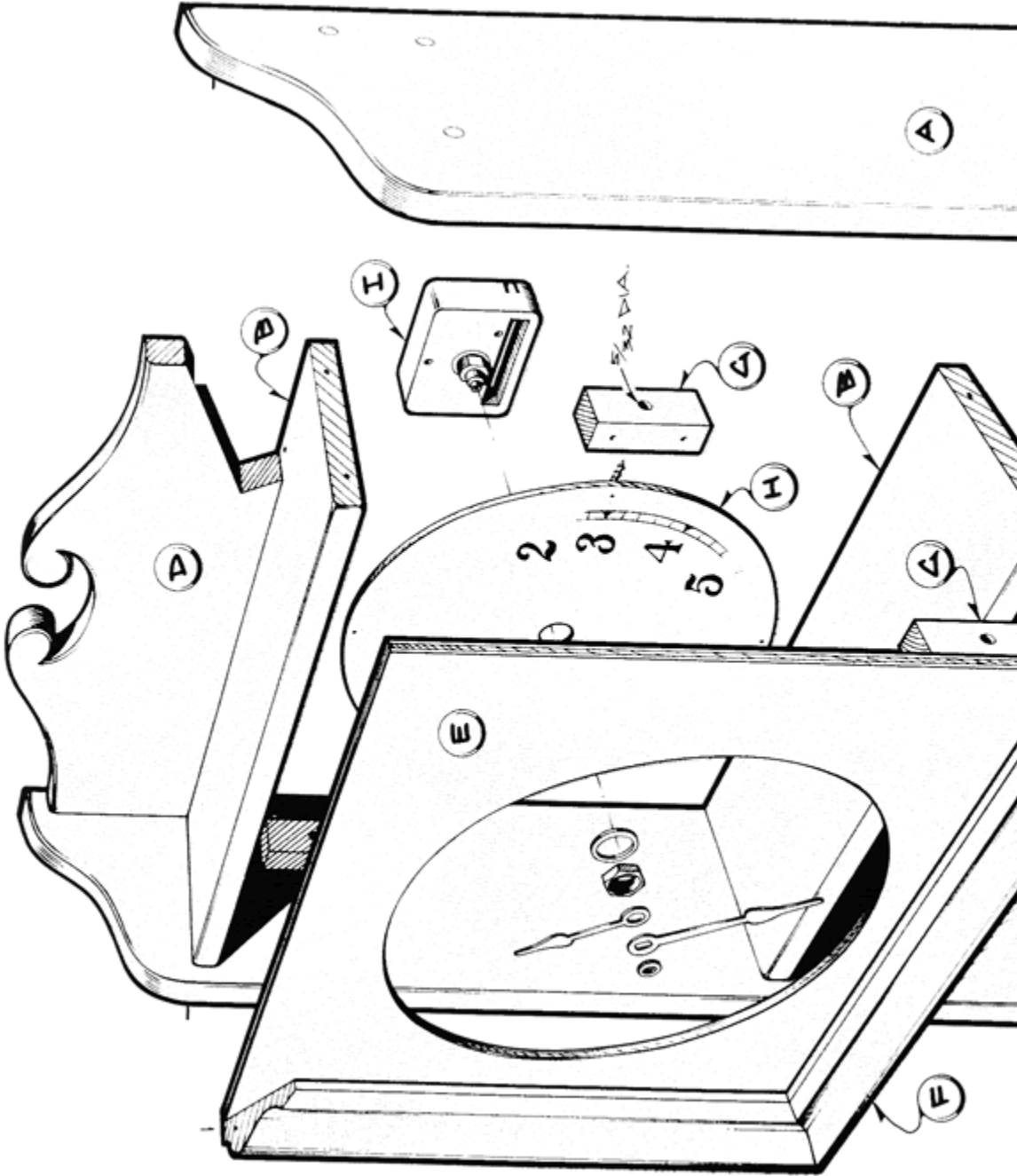
*We used pine for all parts except the birch plywood dial board. You can purchase the molding at almost any lumberyard. You can obtain the hand screened enameled metal dial and battery operated quartz movement from a clockmaker's supply store.*

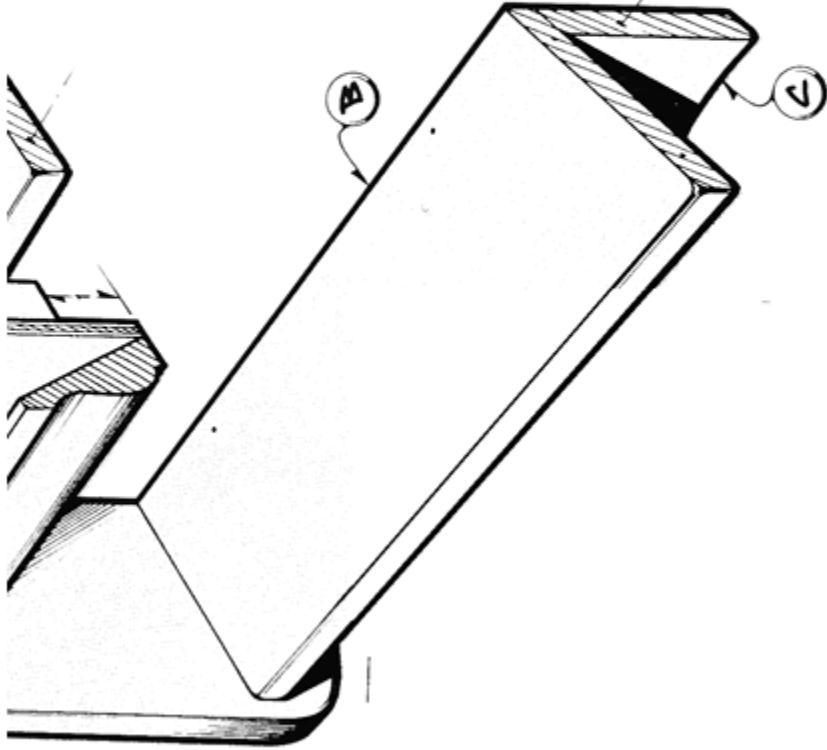
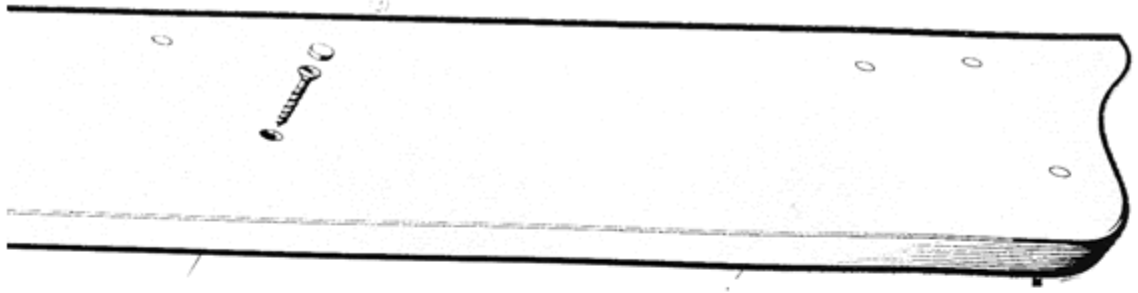
## Country Curio Clock Materials List

Part	Description	Size	No. Req'd
A	Side	3/4" x 3-1/2" x 24"	2
B	Shelf	3/4" x 3-1/4" x 9"	3
C	Lower Back	3/4" x 3" x 9"	1
D	Upper Back	3/4" x 4" x 9"	1
E	Dial Board	1/4" x 9" x 9"	1
F	Molding	11/16" x 1-1/8" x 9"	4
G	Cleat	1/2" x 3/4" x 2"	4
H	Dial*	6" dia.	1
I	Movement*	5/8" x 2-1/8" x 2-1/8"	1

\* Obtain parts H and I from a clockmaker's supply store.

# Country Curio Clock Complete Schematic







# Country Curio Clock Step-by-Step Instructions

## Step 1: Cut Stock to Size

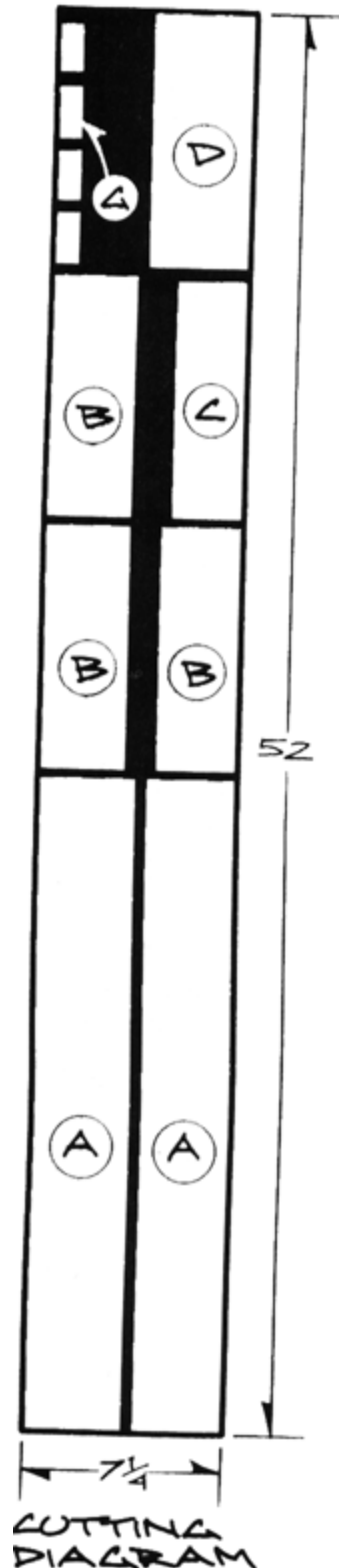
1. Select a 52" length of 1" x 8" lumberyard pine (3/4" x 7-1/4" actual) with limited cups, twists, and knots to make most of the parts for the projects.
2. Make sure your miter gauge is set at exactly 90 degrees so your crosscuts will be exactly square.
3. Refer to the cutting diagram and crosscut and rip the stock as needed to get the dimensions shown in the materials list.

## Step 2: Shape the Case Parts

1. Use the grid patterns provided to lay out and mark the curves on the two sides (A), along with the curve on the lower back (C) and the upper back (D).
2. Use a band saw to cut out the curves.
3. Use a file and sandpaper to smooth the sawn edges.
4. Use the router table and a 1/4" radius roundover bit to round the front edges of the sides, the front edges of the three shelves, the bottom front edge of the lower back, and the top front edge of the upper back.
5. Use a file and sandpaper to get into the sharp corners on the upper back curve that the router bit won't be able to reach.

## Step 3: Assemble the Case Parts

1. Lay out and mark the shelf locations on the two sides.
2. Use 1-1/4" x #8 flathead wood screws, counter-sunk to a depth of 1/4", to assemble the case parts as shown.
3. Add the lower and upper backs in the same manner.



4. Cut the plugs just slightly long.
5. Glue the plugs in the countersunk holes.
6. Allow the glue to dry.
7. Sand the plugs flush with the surface.

#### **Step 4: Make the Dial Board and Frame**

1. Select a piece of 1/4" thick plywood to make the dial board (E).
2. Measure the opening in the case.
3. Cut the plywood to fit.
4. Use the drill press and a circle cutter to bore the 5-1/4" diameter center hole.
5. Give the dial board a thorough sanding, taking care to slightly round the front edge of the center hole.
6. Paint the front of the dial board, leaving about 1" exposed all around the edge where you will attach the molding (F).
7. Obtain a 40" length of 11/16" x 1-1/8" "base cap molding".
8. Sand the molding thoroughly.
9. Cut the molding to length.
10. Miter the molding ends to 45 degrees. **NOTE: You'll want the molding to fit flush with the outside edges of the dial board.**
11. Add a thin coat of glue to the miters.
12. Fasten a brad into each mitered corner to assemble the four pieces of molding into a frame.
13. Allow the glue to dry.
14. Final sand the frame.
15. Apply two coats of desired stain.
16. Apply two coats of shellac.
17. Glue and clamp the final frame to the dial board.
18. Make sure the outside edges of the frame are flush with the outside edges of the dial board.
19. Set aside to dry once all is flush.
20. Cut the four mounting cleats (G) to size.
21. Bore a 5/32" diameter center hole in each one.
22. Glue the cleats to the back of the dial board.
23. Locate the cleats so they are flush with the side edges of the dial board and about 1" from the top and bottom edges.

## Step 5: Finish as Desired

## Step 6: Mount the Dial and Movement

1. Use three 3/16" long brads or escutcheon pins and, taking care to make sure the time ring is centered in the dial board hole, mount the dial (H) to the back of the dial board.
  2. Mark the location of the dial board: 1-5/8" from the back edge of the case.
  3. Prebore the holes for the 1" long x #6 wood screws in each cleat and into the case.
  4. Hold the dial board in place while driving each screw into place.
  5. **NOTE: DO NOT use glue here, as you may want to remove the dial board at some point in the future.**
  6. Install the movement (I).
  7. Add the hands.
  8. **NOTE: If the minute hand extends beyond the time ring, use a snip to shorten it as needed.**
  9. Attach a pair of picture hangers to the upper back to provide a convenient means to hang the clock.
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